

SEQUENCE LISTING

<110> Henderson, Robert A.
 Wang, Tongtong
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 Johnson, Jeffrey C.
 Retter, Marc W.
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 McNabb, Andria

<120> COMPOSITIONS AND METHODS FOR THE THERAPY
 AND DIAGNOSIS OF LUNG CANCER

<130> 210121.478C17

<140> US

<141> 2001-07-10

<160> 2002

<170> FastSEQ for Windows Version 4.0

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<211> 527

<212> DNA

<213> Homo sapiens

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<212> DNA

<213> Homo sapiens

<400> 2

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<210> 3

<211> 464

<212> DNA

<213> Homo sapiens

<400> 3

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aactacaaga cggtagagtc tttggaagaa accttgaaga aagcgtctcc tgatggttat 180
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ccccaggcc cccccccaga gattgttatt tatcaggagc ttccgatgga agcttttgtc 360
gtctaccgct ggcaaggaga tgcccgccaa aaagctctga aggacttgct gaaatgggtc 420
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<211> 510

<212> DNA

<213> Homo sapiens

<400> 4

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gaggtgggct gggagattaa catcttacct ggggtccttc agataaacct gttggttttt 180
cctgtctcat acaggcccat cttaagtttt gatgttgaat taaaactact tctaccccct 240
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ttattatata ctgctttggt taagcagagt cctctggaat ttatgtacag tacattagtt 420
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<210> 5

<211> 452

<212> DNA

<213> Homo sapiens

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tgtgagtact ggttccaagt gacatgaccc agcgattatg ttacagtctt ggacttctga 360
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452

<210> 6

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<212> DNA

<213> Homo sapiens

<400> 6

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atccacgatac	gagggcatat	tgcttcagtt	ctcaatgcat	ggccagaaga	tgatcatcaag	180
gccattgtgg	tgactgatgg	agagcgtatt	cttggcttgg	gagaccttgg	ctgtaatgga	240
atgggcatcc	ctgtgggtaa	attggctcta	tatacagctt	gcggagggat	gaatcctcaa	300
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<211> 376

<212> DNA

<213> Homo sapiens

<400> 7

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atatcttttg	ataatgttat	ttctattttt	tatttttttt	cattagaagt	taccaaatta	180
agatggtaag	acctctgaga	ccaaaatttt	gtcccatctc	tacccctca	caactgctta	240
cagaatggat	catgtcccc	ttatgttgag	gtgaccactt	aattgctttc	ctgcctcctt	300
gaaagaaaga	aagaaagaag	actgtgtttt	tgccactgat	ttagccatgt	gaaactcatc	360
tcattaccct	tttctg					376

<210> 8

<211> 406

<212> DNA

<213> Homo sapiens

<400> 8

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ctgtgttaaa	gatgctgcta	atgtcagtc	ctgggtgcac	taaaggatct	cttattttat	180
gtaaaacggt	gggattgaca	agatagatct	gatactctgt	taagttaccc	tctgaagcta	240
cttcttgtga	aataactaatg	acagcatcat	cctgccaaagc	gaaagaggca	ggcataagca	300
aggacaaatt	aaaaggggggt	aagagcctta	tcatgatgag	gagtccttgtt	ttgacatctt	360
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<210> 9

<211> 330

<212> DNA

<213> Homo sapiens

<400> 9

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ctctggcctt	ccgagaagggt	accatcaatg	tccacgacgt	ggagacacag	ttcaatcagt	180
ataaaacgga	agcagcctct	cgatataacc	tgacgatctc	agacgtcagc	gtgagtgatg	240
tgccatttcc	tttctctgcc	cagtctgggg	ctgggggtgcc	aggctggggc	atcgcgctgc	300

tggtgctggt ctgtgttctg gttgcgctgg

330

<210> 10

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<212> DNA

<213> Homo sapiens

<400> 10

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ggtgtctcag	ggctggggtg	gggtccaaag	tgtaaggacc	ccctgccctt	agtggagagc	180
tggagcttgg	agacattacc	ccttcatcag	aaggaatttt	cggatgtttt	cttgggaagc	240
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catgcgggta	agttgaggtt	atcttgggat	aaagggctct	ctagggcaca	aaactcactc	360
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aaattgagtt	ctttttctta	gttgtatgg				449

<210> 11

<211> 472

<212> DNA

<213> Homo sapiens

<400> 11

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aacccttggg	ggataagaca	gccacacatg	gctcaggctg	ttaggtgtcc	actgtcacag	180
tccaaagaga	aaggtacggc	ctccaagggg	gcagcttaag	ccaacatgta	agacttgggc	240
acgatgaaag	gacggggggtc	cagctacgaa	tgtttttgtt	cttgatgtca	agttgccagc	300
tactggaagg	caggagcagt	ttcttctttt	tcccactctg	tgctgggtac	ttgggagagg	360
cgaaataaat	accagactgt	ccactcctca	gcctaaggtc	cttctcaagt	cctgcacact	420
cagcacttgc	tctttaacgt	ggcatatggt	cccccatctt	cccctggtaa	tg	472

<210> 12

<211> 371

<212> DNA

<213> Homo sapiens

<400> 12

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actgccagcc	tagggatgca	cttgattccc	aagaaatgca	actgtcctat	tcgcaragcc	120
gtccacaggt	acctaccccc	tggactgcag	caacttttatt	accttaacta	gcacaraaca	180
gaggttgatt	taaactcctt	acactcactt	ctcaratcaa	tgaatgggca	aaraaacmcc	240
tcatggctct	gggaaggcat	gctgaracce	gttttttgcaa	gtcctgagga	atggaaraat	300
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<210> 13

<211> 493

<212> DNA

<213> Homo sapiens

<220>

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234, 235, 236, 237, 238, 239

<223> n = A,T,C or G

<400> 13

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aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 240
caacctgctc ctcattattg taaacatgtg cagaatcaat atggcggaac ccagcttcta 300
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agcaatcccg ccgagcttct ttgagacgtc ctcagggtgc ctttgacgat gcgtcctcca 420
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gaatgttggg gtg 493
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<210> 14

<211> 540

<212> DNA

<213> Homo sapiens

<400> 14

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tgtctttgta ttctgggtaca tcgtcgtact gcacactttt ctttgtagag gatctgaagg 480
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<210> 15

<211> 421

<212> DNA

<213> Homo sapiens

<400> 15

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cttccccctt ccttcctatt ccccacaact gggggaggga agggagaaca ggggcacctg 300
atcatcaatc tccccctgcc ctctcttgaa gccccctaga tttggatgaa gagcaggcca 360
gtgagcaggg caaagcctgc taggagcaga atgaccttga ggatcctttg ctcagaactg 420
g 421
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<210> 16

<211> 236

<212> DNA

<213> Homo sapiens

<400> 16

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gctgacagca aagagctgct ctctgtgggc ctgcttcate tcatccgaga ggccgtacaa 120
gaagtgggtcc attcctttgt ctgaaggagc gacaggagca tctacggttg agaagacaga 180
aagtttggct tcgtcgatgt cttgctgtgt gaattttcca gacttagccc agtcga      236

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<210> 17
<211> 424
<212> DNA
<213> Homo sapiens

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<400> 17
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cattcagcct ttaccaatct tgtcctccaa aaaaacgaga agacatactg aaggcatgca 120
agcagatgca gatgataata ttcttgatta ctcgatgga atggaagaaa tatttggttc 180
cctcaattcc ctgaaacaag acatcgagca tatgaaattt ccaatgggta ctgagaccaa 240
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ttggattgat cctaaccaag gttgctcagg agattccttc aaagtttact gtaatttcac 360
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atgg                                             424

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<210> 18
<211> 154
<212> DNA
<213> Homo sapiens

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<400> 18
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cacaagagac ttaaaggaca ggaggaggag atgg                                             154

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<210> 19
<211> 445
<212> DNA
<213> Homo sapiens

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<400> 19
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aattaaagtt gaacaaattg aagcagggac accaggccga ctgagagtag tagctcagtc 120
caccaatagt gaggaaatca ttgaaggaga atataatacg gtgatgctgg caataggaag 180
agatgcttgc acaagaaaaa ttggcttaga aaccgtaggg gtgaagataa atgaaaagac 240
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cgatatattg gaggataagg tggagctcac cccagttgca atccaggcag gaagattgct 360
ggctcagagg ctctatgcag gttccactgt caaagtgtga ctatgaaaat gttccaacca 420
ctgtatttac tcctttggaa tatgg                                             445

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<210> 20
<211> 211
<212> DNA
<213> Homo sapiens

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<400> 20
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ctgggttcgt cccagtgag accggaggat gatcccccaa ggactgcgca gcatcagctc 180

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ttggtggggcc tctgccttct cttctgtttg g 211

<210> 21

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<212> DNA

<213> Homo sapiens

<400> 21

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agctcagaag	gctaaatgaa	tattatccct	aatacctgcc	acccactct	taatcagtgg	360
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<210> 22

<211> 277

<212> DNA

<213> Homo sapiens

<400> 22

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tccatcttct	ggttgaggga	atccacaaac	cactcatccc	ccatgaaatt	gcaggccatg	180
tctacatctc	cattatataa	taggatctgg	gatttctgtg	agctaagcag	cttcagatac	240
tgggagttca	tgcttcggta	gagacggcgg	tactgta			277

<210> 23

<211> 634

<212> DNA

<213> Homo sapiens

<400> 23

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atggaggggag	gatttttatgg	agaaatgggg	atagtcttca	tgaccacaaa	taaataaagg	180
aaaactaagc	tgcatgtgtg	gttttgaaaa	ggttattata	cttcttaaca	attctttttt	240
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aaattttctaa	gtcagcctct	agtcgtgggt	catctctttc	acctgcattt	tatttggtgt	420
ttgtctgaag	aaaggaaaga	ggaaagcaaa	tacgaattgt	actatttgta	ccaaatcttt	480
gggatttcatt	ggcaaataat	ttcagtgtgg	tgtattatta	aatagaaaaa	aaaaattttg	540
tttcctaggt	tgaagggtcta	attgatacgt	ttgacttatg	atgaccattt	atgcactttc	600
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<210> 24

<211> 512

<212> DNA

<213> Homo sapiens

<400> 24

gcaaaacaag	cctaagcaag	cacaacgaag	agcagaagtc	agtgaatta	aaaagaggaa	60
aaagaaaaat	cataaaaatc	ataaaaagtt	atttctttga	aaagatcaat	gaaatttagc	120

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aagactgaca cagataaaaa ggaattagac ccaaatacagt gaacaggaat gaaatagagg 180
atatcactac agaggctgca gccattgaaa ggataattag gaaatcccac agataacttt 240
gtgctcataa atttgacaat gtagaggaaa tatcttttagt tttaattagc tttttatttt 300
agtttttctc aaaaactaaa acttaataaa actcaaccaa gacaaaatag acaatcagaa 360
tgtaggcata cctcagagat gtggcggatt tggtttcaga ctactgcaat aaaccaaata 420
tggcaataaa aggagtcaca gaaagtgggt tcccagtgta tatatataaa agttacattt 480
actctatgaa gtgcaataac attttgtcta aa 512

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<210> 25
 <211> 461
 <212> DNA
 <213> Homo sapiens

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<400> 25
ctctgtttca gcacctcatt gggattattg aactcattaa attctttaca tgaacttgaa 60
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aaagaacatt cgtgggtgggt tagtgatgag gttaatatc cctctctgtc cacctccaca 180
ttggaaaaac cacgttggac tgagttttga ggagcaaaga actaatcact tgaccaaagg 240
ggcctgtat cccacaagc cctgggtatt tttctctcat agagagaaga gggctctgtat 300
ggataacctga aaatgtgatt ttatatattc ttggcatcca ggggagaaaa atcaaaaagc 360
aaggaagtta cagttatctc ccagaaaatt aatgggtcat gtcaagacta taggttttca 420
tttcttctg ttgcttggtt gaatgatgtt cttgtgggaa a 461

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<210> 26
 <211> 317
 <212> DNA
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<400> 26
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taggatttat tacactaaaa aaaaattagt ttttgaaaag aaataggaga atacagaaac 120
atgaatttca cgaggctatc atctaacagt gggggccttc tacacacgtg gtgccaaaat 180
gtgtcattct gagtcaattg caattcctct ctaggagtga aaagagataa aagataagcc 240
aagaaccctg gacagattct tgggtgttgg gacaaagagg aaaggacctg agaatggggc 300
tgggtggggag agggggg 317

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<210> 27
 <211> 250
 <212> DNA
 <213> Homo sapiens

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<400> 27
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ttcttccatt attttttccct cctaccactg agttttgtta tgaattcctt gtgtatacaa 180
gcaatacagg tgaataactaa actgttatatt ttagcttctt caaaagctat tttagaaagc 240
ttcctggaaa 250

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<210> 28
 <211> 532
 <212> DNA
 <213> Homo sapiens

<400> 28

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cctatatcat tcattttatac agaagctgct tgctgcttag caagttggtg ggtttgattt 60
tccttggttg ctttgcagac ctcccttgag aggattcctt ctggatggag atttctttgt 120
tgctgtctcc cttgccacaa ctctgaccaa gattgcattg cgctatgtag ctttggttca 180
ggagaagaaa aagcaaaaatt cttttgttgc tgaggctatg ttgctcatgg ctactatcct 240
gcatttgagg aaatcctctc ttcctaagaa gccaatctat gatgatgatg tggatcgaat 300
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ggaatgcaga cagtcacctt ctacatggtt atctgctaaa ctagaagaag agaaattatc 420
ccaaaagaaa gaatctgaaa agaggaatgt gacagtacag cctgatgacc ccatttcctt 480
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<210> 29

<211> 486

<212> DNA

<213> Homo sapiens

<400> 29

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ctgttttttg acttaattaa cywttgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg tcatgttgct tctttctgca aatatatctt acaagttaga ctttaaacct 120
ttgatctccc acacaaaag agaaaataat atttatatgg aagtaatttt attttagtgt 180
ttgtgattta ttgtggagag caggbgttta aaaatttttag aattttcttt taacaaaatc 240
aaatacattg ttaaggtaac aaagaataat tcactatttc agcatttcaa agcaacatat 300
tctacaactt caaagatatt tgcaaaaata atacaactgt tgaagttcaa atgttatgga 360
aagaaacatt agaagtatga aaagtggtag aaaaacatgt ttctttttat tctcttggt 420
atatatctat atatttagga aaatacatat atgtatgtgt atgtatatat atgtatgaaa 480
atatac 486

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<210> 30

<211> 240

<212> DNA

<213> Homo sapiens

<400> 30

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aagacctgag gaaggaaaac aaattggctt cctgctgaag aakcaaaaata gacatttttt 60
aatgtctctt gaccccagtt ccaagttcac cctgttgctt gttcttctc ccaccttttg 120
gggttctata actgcatccc ccacacatct ttcaccacca ccccatatcat accagctctc 180
ctgttggtggg attcaggaca taggaagagt tgctgaaggc acgggtgctt ttgggattcg 240

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<210> 31

<211> 233

<212> DNA

<213> Homo sapiens

<400> 31

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ccattgatgc aggatatcgg cacattgact gtgcctatgt ctatcagaat gaacatgaag 60
tgggggaagc catccaagag aagatccaag agaaggctgt gaagcgggag gacctgttca 120
tcgtcagcaa gttgtggccc actttctttg agagaccctt tgtgaggaaa gcctttgaga 180
agaccctcaa ggacctgaag ctgagctatc tggacgtcta tcttattcac tgg 233

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<210> 32

<211> 233

<212> DNA

<213> Homo sapiens

<400> 32

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gaggaatgct ggactggagg cccctggagc cagatggcaa gagggtgaca gcttcctttc 60
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ggcttggggg caagaaacag ccagcaagag ttaggggcct tagggcactg ggctgttggt 180
ccattgaagc cgactctggc cctggccctt acttgcttct ctagctctct agg          233

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<210> 33

<211> 319

<212> DNA

<213> Homo sapiens

<400> 33

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ctgggcctgg atggtctagg atagccttac tcacttgcct ggcaggtgac aggctgttgg 60
ctggaattgc ttggttctcc tccatgtggc ctctccagta ggctagctca ggcttattca 120
catgatggct tcaggattcc aaagagagtg agagtagaag ctgaaagact tcttgagtgc 180
ttggcctgga actgggacta ggacagtgtc acttctgcta agttcttttg gtcagagcaa 240
atcacaaggc tttacccaga ttcaagggat gagaaacaga ctacatgtct tgatgagggg 300
aaccacaaag agcttgtgg          319

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<210> 34

<211> 340

<212> DNA

<213> Homo sapiens

<400> 34

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tacagattta attcatgtta ttaactccct gcctttttacc tcctccctcc tcccttggca 60
caactgccag atggatgtgg ctggaagtca gaggacattc tcgtgggttc gtgggcctag 120
ggtacaaatg acctcagcgt gacagcaaac aggacagaga agaccaggct cttactcagg 180
aatccaccag ccaggagaat gacaatgttg aacaccggaa ccctgatgat atctgtcaca 240
tttgtaaggt tgatttcaga gtcaggagtg gagacatcgg cagttgactt ggggtggagct 300
tgggtcacag ttctggggct ggtatagagt gggcacaagg          340

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<210> 35

<211> 170

<212> DNA

<213> Homo sapiens

<400> 35

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acatgggtcc ttcactcctc gctgagatgt tgcggcagcc ttttcttcca atgcggttgt 60
ggcaggagaa tccacggatg taatgttttc acctttttcc ctgaggggtgc tttctgagga 120
accagycctt aagaggtggg gtcttggatt cctgaccagc gcgtccggca          170

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<210> 36

<211> 475

<212> DNA

<213> Homo sapiens

<400> 36

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ctgttttttg acttaattaa ccattgcaag tggaaaccaa gaaataattg tagcataact 60
ctctctattg kcatgttgct tctttctgca aatatactt agaagttaga ctttaaaccct 120
ttgatctccc acaccaaaag agaaaataat atttatatgg aagtaatttt atttttagtgt 180
ttgtgattta ttgtggagag caggtgttta aaaatttttag aatttcttta acaaaattct 240
aaagagaaaa taaaaaagaa atcacagtat ttacagagat aacagaatgg cttagccatg 300
caaaacaaat aactttgggt tttcccttt tactttgggt taaatgttga ccaagattca 360

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atTTTTTTTtC ctgCCaaata aaacttcaat aaaagtttag aggcaaaata acgtatTTTTc 420
 tTTTTTTccc ataatatTTTt atacagcatc gagtctaaga atatTTTtatg cattt 475

<210> 37
 <211> 246
 <212> DNA
 <213> Homo sapiens

<400> 37
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 cgaaggagat ctggtctccc acaatgaagg tcttgccctcc ctgggttctgg gacagcaggg 180
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 agttgg 246

<210> 38
 <211> 512
 <212> DNA
 <213> Homo sapiens

<400> 38
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 aagaaaaaag tgactttcaa ctcttcttcc atcattttta tcatcaccag tgatgaatca 120
 ctgtcagttg acgacagcga caaaaccaat gggTccaaag ttgatgtaat ccaagttcgt 180
 cctttgtagg aatgaagaat ggcaacgaaa gatggggcct taaattggat gccacttttg 240
 gactttcatc ataagaagtg tctggaatac ccgttctatg taatatcaac agaaccttgt 300
 ggtccagcag gaaatccgaa ttgcccatac gctcttgggc ctCaggaaga ggTtgaaaca 360
 aaacaaattc ttttaattca acgggtgctt tacataatga aaaaaccact tgtggcacac 420
 gatgggcacT taacatcatc atcttctaT gtgttgga ttttcatttc aaatatattt 480
 tttaaattac tctattttcc aaaacacgta at 512

<210> 39
 <211> 370
 <212> DNA
 <213> Homo sapiens

<400> 39
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 atgtactcga ctctgtccta tttagccttc ccatacctga cttctaatac cttttcctgg 120
 tgccctycca tctccctaac cccccctcac agggatgcct cctcccaagg ctccagaaac 180
 tctgaccctc gcactgctgg agggagccca tgaattgctg gtcaatatcg ctcatcctct 240
 akactccatc ctgcgtgtgc ttcttcctac aagagctaga gaggcactga ctgataaata 300
 cctgtcacct gcccttttcc cagaggggtga aactccaccc actcccactg cagaaatgaa 360
 tcttaaatgg 370

<210> 40
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 40
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 ggagcagagc agaccttggt tttagtgggt ccatgggata aaatgggatt ggaggagcta 120
 gaagaattca gggTctggtc caatctgccA gtcttcctga aatatcgaaa atacaccagg 180

gctgctatat cagagccacc ctgg

204

<210> 41

<211> 447

<212> DNA

<213> Homo sapiens

<400> 41

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tcaagcaagc	acttgacaag	attccacagg	ccatagagat	tttcttctga	gaagaatttg	120
tgtttaattt	tttgatacca	acactgaaca	ttcatcaggg	aactttcctg	aagttcagct	180
caagactacc	ctacctgctg	tgtttgtgag	aagagtagga	tcacacacac	aggtgcaatc	240
ttgaccacac	ttacctgcaa	gaggagtaac	cagaggacac	acttccttcc	ttctttgggtg	300
tctgaggagt	gtgaactggt	ggggtcagtt	aagacccaac	ataactctat	cagaagaaaa	360
ctgttggttg	cctttcaacc	ttgttttaca	gttctgcagt	gtagtggagg	acgggcaacg	420
tgcattgtgca	ggctcaccac	tcccagg				447

<210> 42

<211> 498

<212> DNA

<213> Homo sapiens

<400> 42

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attagattct	cattgcactg	aactatat	atatgcctaa	gtatgtagaa	gtaaaattat	120
atacccaaaa	aggattttat	cttggtgtat	atattaaatg	ttatttctgc	atatagggtc	180
ttttatggag	aaactgatga	tgataagctt	aatactcact	tgttttagcag	catctgaatg	240
cacaaatgct	ttatatatct	cttctgcttt	acagggcaaa	agatcagact	ctgttttctt	300
atagtcttca	caagccagcc	agaactcaat	attctcctca	ctgaattcag	actttaggaa	360
acttccaaag	acattttgac	cagtttggtt	ggcaagaagt	ttttccagag	attgagacca	420
ttgcattact	tcagcagcag	aaagtacatc	cttggacttg	gaagatttca	ttccagattc	480
cagatgtggg	atcataga					498

<210> 43

<211> 312

<212> DNA

<213> Homo sapiens

<400> 43

caggaaggcg	gccagaatg	tgagtgcaaa	gattggttcc	tgagagcccc	gagaagaaaa	60
ttcatgacag	tgtctgggct	gccaaagaag	cagtgccctt	gtgatcattt	caagggcaat	120
gtgaagaaaa	caagacacca	aaggcaccac	agaaagccaa	acaagcattc	cagagcctgc	180
cagcaatttc	tcaaacaatg	tcagctaaga	agctttgctc	tgcctttgta	ggagctctga	240
gcgcccactc	ttccaattaa	acattctcag	ccaagaagac	agtgagcaca	cctaccagac	300
actcttcttc	tc					312

<210> 44

<211> 417

<212> DNA

<213> Homo sapiens

<400> 44

ctaacacatt	tactctccac	tattcggtact	ctggtagcca	tgttaacccc	atcagagatt	60
ccttctcaag	ccatgtctca	gagctgagag	gcattcccagc	aagttttgca	gctcacagtt	120

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ttttccgtaa attacttatt ctataaaaatt ggagtaggcc ataaactttg gagggcccta 180
gaccaatttt ttggattatt tttcgtcttc tatcattccg ctgatcttag atattctctg 240
cattaaatat taaatatcac ttctaggctg aaaaatcccc ctaaaaatat ttctagctca 300
gattttttcct ccaaattctg caatagaaga tcacaatgtg aactctgcat ctccatgtta 360
aagtctaata gacattcaca cttagcatgt ctcaaagaaa tctcatgtaa accatgg 417

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<210> 45

<211> 494

<212> DNA

<213> Homo sapiens

<400> 45

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cgcgtgtctg tggatatgtg acacgtgcat gttctgcatg tctgtaggtc acacatgctt 60
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gtgtgcatgc atgtgtgcag gagcttgcac gtttgtggtg ggtacatgta catatgtgag 180
tgatcctgtg tgcaagcccc catgtggaca tggctatgag tgagcgtgga gccaaaagcc 240
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ggtgtgaatc atgcagcagg cccactgtgc gtgtctgaga cggctctgtg cagggactgg 360
gtgtgaatca gtgaccgtgt ctctgaccaa catgctgaat tacaaattga taatttatta 420
acctgtgcag caacaaataa gatttttcaa aactcaacaa agtgctcaaa gttgacatta 480
cttgcttcaa agtt 494

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<210> 46

<211> 516

<212> DNA

<213> Homo sapiens

<400> 46

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ccagtccaac ctgctcctca ttattgtata aatgagcaga atctatatgg cggaacccag 60
cttctattgc taattttgtg acctccaaag ctttacttct cggaacctcc tcctttggcc 120
gtcattttgat cattcaactc tttgtcagtg gcaactcccg ctatttttgg gtgttggttt 180
gttactacac agtgagcaca aacatggtgg tccaatacag aggctcttcc tgtcagggtg 240
caaccagaaa gttcatctaa cactgtgata tttgcatcct tcttgaacag ttgttggctg 300
aagattcatt tgatgaatcg atttttcaaa agagatgatt cttgggttctt ccgagcgctc 360
agctctcccg ccgagcttct ttgagacgtc ctcagggtgc ctttgacgat gcgtcctcca 420
ctttcacaca ctctagcatt ccttcaactgg ggtcttcatt gcccacatt gggcagccag 480
gaatgttggg gtgatcagac acaacaccag gtcatg 516

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<210> 47

<211> 459

<212> DNA

<213> Homo sapiens

<400> 47

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ccaattcaga gtggcattct gcattttctgt ggcttccaag tcttagaacc tcaactgaca 60
tatagcattg ggcacactcc agcagacgcc cgaattcaaa tcctggaagg atggaagaaa 120
cgcctggaga atatttgga tgagacacca ctgtattttg ctccaagcag cctctttgac 180
ctaaacttcc aggcaggatt cttaatgaaa aaagaggtac aggatgagga gaaaaacaag 240
aaatttggcc tttctgtggg ccatcacttg ggcaagtcca tcccaactga caaccagatc 300
aaagctagaa aatgagattc cttagcctgg atttccttct aacatgttat caaatctggg 360
tatctttcca ggcttccctg acttgcttta gtttttaaga tttgtgtttt tctttttcca 420
caaggaataa atgagaggga atcgaksaaa aaaaaaaaaa 459

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<210> 48

<211> 430
 <212> DNA
 <213> Homo sapiens

<400> 48
 cctatatattca gccacagcct ctgggagtggt tgctgataat cggagccttg aattaccct 60
 tcgtttctcac cattcagcca ctgataggag ccatcgctgc aggaaatgct gtgattataa 120
 agccttctga actgagtgaa aatacagcca agatccttggc aaagccttctc cctcagtatt 180
 tagaccagga tctctatatt gttattaatg gtgggtgttga ggaaaccacg gagctcctga 240
 agcagcgtatt tgaccacatt ttctatacgg gaaacactgc ggttggcaaa attgtcatgg 300
 aagctgctgc caagcatctg acccctgtga ctcttgaact gggagggaaa agtccatgtt 360
 atattgataa agattgtgac ctggacattg tttgcagacg cataacctgg ggaaaataca 420
 tgaattgtgg 430

<210> 49
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 49
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 agctttggwg caattcccat cgaccagagt tgggccgacc agccttggaa aggtcactga 120
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaage 180
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
 tctgtgccac gtggggaggcc rtggagaagt gtaaagatgc aggattgg 288

<210> 50
 <211> 411
 <212> DNA
 <213> Homo sapiens

<400> 50
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 agcgtaatgt taagcaaact ctccatgaa cactcgctca aaccagcctt tcagaatggc 180
 agggactcca aaccactgca gggggaactg gaatatcaca aggtctgcgg cttccagctt 240
 cttttgttca gccacaatat ctgggctcag atggccttct ttataagcca gaacagactc 300
 ggcaggatac tgaaagtctg cagggtcctt cagtttacct gtgatgtcct ttctggaaat 360
 gatgggattg aagttcatgg catagaggtc cgactccacc acctcccatc c 411

<210> 51
 <211> 503
 <212> DNA
 <213> Homo sapiens

<400> 51
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 ttgtgcaccc tccacaaaac atacaaagtt taaaagtttg gatctttttc tcagcaggta 120
 tcagttgtaa ataataaatt aggggccaaa atgcaaaacg aaaaatgaag cagctacatg 180
 tagttagtaa tttctagttt gaactgtaat tgaatattgt ggcttcatat gtattatatt 240
 atattgtact tttttcatta ttgatggttt ggactttaat aagagaaatt ccatagtatt 300
 taatatccca gaagtgcac aatttgaaca gtgtattcta gaaaacaata cactaactga 360
 acagaagtga atgcttatat atattatgat agccttaaac ctttttcctc taatgcctta 420
 actgtcaaat aattataacc ttttaaagca taggactata gtcagcatgc tagactgaga 480

ggtaaact gatgcaatta aga

503

<210> 52

<211> 503

<212> DNA

<213> Homo sapiens

<400> 52

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ttgtgcaccc	tccacaaaac	atacaaagtt	taaaagtttg	gatctttttc	tcagcaggta	120
tcagttgtaa	ataatgaatt	aggggccaaa	atgcaaaacg	aaaaatgaag	cagctacatg	180
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atattgtact	tttttcatta	ttgatggttt	ggactttaat	aagagaaatt	ccatagtttt	300
taatatccca	gaagtgaac	aatttgaaca	gtgtattcta	gaaaacaata	cactaactga	360
acagaagtga	atgcttatat	atattatgat	agccttaaac	ctttttcctc	taatgcctta	420
actgtcaa	aattataacc	ttttaaagca	taggactata	gtcagcatgc	tagactgaga	480
ggtaaact	gatgcaatta	aga				503

<210> 53

<211> 531

<212> DNA

<213> Homo sapiens

<400> 53

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gaatagtaca	tgggaaattc	tctttaggcc	aggtctagta	ttacagkgtg	gkgctcaagg	120
ccgcccata	gaacagtgat	actctcccaa	cagatttcat	ccaccccgtc	tccactaact	180
tttgccataa	aaattcctct	gaattgtatc	ttcttggaag	aagtaaatat	ctgttcgact	240
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agccgtgttc	tttctgctga	gttttataga	ctctgacaag	ctgtgaaata	aacataaaca	360
gaagacaaaa	cagtgccaca	aataagcagt	agatgaccct	gtgacaagac	ggcattgcag	420
aacaaagact	gacgtttaaa	ggggagtcac	gcagagtaac	atgggaacac	aagcctgaca	480
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<210> 54

<211> 450

<212> DNA

<213> Homo sapiens

<400> 54

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taaaatgaaa	aggcactctc	gtgttctect	cactctgtgc	actttgctgt	tgggtgtgaca	120
aggcatttaa	agatgtttct	ggcattttct	ttttattttg	aagggtggtg	taactatggt	180
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acaaccgaga	caaacccttg	atgctccttg	ctcggcgttg	aggctgtggg	gaagatgcct	300
tttgggagag	gctgtagctc	agggcgtgca	ctgtgaggct	ggacctgttg	actctgcagg	360
gggcatccat	ttagcttcag	gttgtcttgt	ttctgtatat	agtgacatag	cattctgctg	420
ccatcttagc	tgtggacaaa	gggggggtcag				450

<210> 55

<211> 648

<212> DNA

<213> Homo sapiens

<400> 55

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caagtcaaaa gacattgttc tgggtgccta tagtgctctg ggatcccacc gagaagaacc 180
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ggcctggcc aagagctaca atgagcagcg catcagacag aacgtgcagg tgtttgaatt 360
ccagttgact tcagaggaga tgaaagccat agatggccta aacagaaatg tgcgatattt 420
gacccttgat atttttgctg gccccctaa ttatccattt tctgatgaat attaacadtg 480
agggcattgc atgaggtctg ccagaaggcc ctgcgtgtgg atggtgacac agaggatggc 540
tctatgctgg tgactggaca catcgctctt ggttaaattc ctctgcttg gygayttcag 600
caagctacag caaagcccat tggccggaaa aaatatcaag ggtcaaat 648

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<210> 56

<211> 536

<212> DNA

<213> Homo sapiens

<400> 56

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aaactataga actcttcatt gtcagcaaag caaagagtca ctgcatcaat gaaagttcaa 120
gaacctcctg tacttaaaca cgattcgcaa cgttctgtta ttttttttgt atgttttaga 180
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taacagtcaa tttctgactc acagcagtga acaaaccccc actccattgt atttggagac 300
tggcctccct ataaatgtgg tagcttcttt tattactcag tggacctgcc cgggcggccg 360
ctcgaagccg aattccagca cactggcggc cgttactagt ggatccgagc tcggtaccaa 420
gcttggccgt aatcatggtc atagctgttt cctgtgtgaa attgttatcc gctcacaatt 480
ccacacaaca tacgagccgg aagcataaag tgtaaagcct ggggtgccta atgagt 536

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<210> 57

<211> 391

<212> DNA

<213> Homo sapiens

<400> 57

```

aggaactact gtcccagagc tgaggcaagg ggattttctca ggtcattttgg agaacaagtg 60
cttttagtagt agtttaaaagt agtaactgct actgtattta gtgggggtgga attcagaaga 120
aatttgaaga ccagatcatg ggtggtctgc atgtgaatga acaggaatga gccggacagc 180
ctggetgtca ttgctttctt cctccccatt tggacccttc tctgccctta catttttgtt 240
tctccatcta ccaccatcca ccagtctatt tatttgtcta gttggatttc atttcttctg 300
gaaaatttat tgtttatttg catgtgacct ttgactgatg gcttcattag cattytgttt 360
ttcttttttg atccttaata gaaaactcaa t 391

```

<210> 58

<211> 455

<212> DNA

<213> Homo sapiens

<400> 58

```

gaagacatgc ttacttcccc ttcaccttcc ttcattgatg gggaagagtg ctgcaaccca 60
gccctagcca acgccgcatg agaggagtg tgccgagggc ttctgagaag gtttctctca 120
catctagaaa gaagcgctta agatgtggca gccctcttc ttcaagtggc tcttgtctctg 180
ttgccctggg agttctcaaa ttgctgcagc agcctccacc cagcctgagg atgacatcaa 240
tacacagagg aagaagagtc aggaaaagat gagagaagtt acagactctc ctgggcgacc 300

```

```

ccgagagctt accattcctc agacttcttc acatggtgct aacagatttg ttcctaaaag 360
taaagctcta gaggccgtca aattggcaat agaagccggg ttccaccata ttgattctgc 420
acatgtttac aataatgagg agcagggttg actgg 455

```

```

<210> 59
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 266
<223> n = A,T,C or G

```

```

<400> 59
ctcagaggca gcgtgcgggt gtgctctttg tgaaattcca ccatggcgta ccgtggccag 60
ggtcagaaag tgcagaaggt tatggtgcag cccatcaacc tcattcttcag atacttacaa 120
aatagatcgc ggattcaggt gtggctctat gagcaagtga atatgcggat agaaggctgt 180
atcattgggt ttgatgagta tatgaacctt gtattagatg atgcagaaga gattcattct 240
aaaacaaagt caagaaaaca actngntcgg atcatgctaa aaggagataa tattactctg 300
ctacaaagtg tctccaacta gaaatgatca atgaagtgag aaattggtga gaaggatata 360
gtttgttttt agatgtcctt tgtccaatgt gaacattt 398

```

```

<210> 60
<211> 532
<212> DNA
<213> Homo sapiens

```

```

<400> 60
gacttctgag acctggggca cccgggcctt tgcggcagct actggcaggg cctgggccacc 60
tcataggact cagttccctt ctgaacactc gggggacatg ggcctctaac tgcccactct 120
gatatgcctg ggtgagccta ggagggaagg ctctgatttg gatttctcca gtcaaagctc 180
acagaaaaaa acctggcact ttgattttca tgggatggtc ctaacagggt cagtcacctc 240
cgagcagttt gggaaccacg tttcttgtcc tgggccctca ggtcagcctg gctgaattag 300
gacccttcct tggcacaggg gtgagaaaga gcttggggaa cgcttggcat tatggagggc 360
tggaaggggc tcaaccccga tttggagaga agtttgggat ggagtgggcg agagattgag 420
agagcgagca ggaaaagagg tcttggagcc tgggactgat ggtggataag gcctggaaag 480
aasatgacsa ggaggaggag agagggaagt ggggtggatga ggagcaggct ga 532

```

```

<210> 61
<211> 466
<212> DNA
<213> Homo sapiens

```

```

<400> 61
gcgacggcga cgtctctttt gactaaaaga cagtgtccag tgctccagcc taggagtcta 60
cggggaccgc ctcccgcgcc gccaccatgc ccaacttctc tggcaactgg aaaatcatcc 120
gatcgaaaaa cttcgaggaa ttgctcaaag tgctgggggt gaatgtgatg ctgaggaaga 180
ttgctgtggc tgcagcgtcc aagccagcag tggagatcaa acaggaggga gacactttct 240
acatcaaaac ctccaccacc gtgcgcacca cagagattaa cttcaagggt ggggaggagt 300
ttgaggagca gactgtggat gggaggccct gtaagagcct ggtgaaatgg gagagtgaga 360
ataaaatggt ctgtgagcag aagctcctga agggagaggg cccaagacc tcgtggacca 420
gagaactgac caacgatggg gaactgatcc tgaccatgac ggcgga 466

```


<210> 62
 <211> 548
 <212> DNA
 <213> Homo sapiens

<400> 62
 ttttgaattht acaccaagaa cttctcaata aaagaaaatc atgaatgctc cacaattttca 60
 acataccaca agagaagtta atttcttaac attgtgttct atgattattht gtaagacctt 120
 caccaagttc tgatatcttht taaagacata gttcaaaaatt gctthttgaaa atctgtattc 180
 ttgaaaatat ccttgttgtg tattaggttht ttaaatacca gctaaaggat tacctcactg 240
 agtcatcagt accctcctat tcagctcccc aagatgatgt gthtttgctt accctaagag 300
 aggtthttctt cttattthtta gataattcaa gtgcttagat aaattatgtt ttctthtaagt 360
 gthttatggta aactctthtta aagaaaattht aatatgttat agctgaatct thtttggtaac 420
 thtaaatctt tatcatagac tctgtacata tgttcaaatt agctgcttgc ctgatgtgtg 480
 tatcatcggg gggatgacag aacaaacata thtatgatca tgaataatgt gctthtgtaaa 540
 aagattthc 548

<210> 63
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 63
 thttccaaagc ggagactthc gactthcctta caggatgagg ctggggcattg cctggggacag 60
 cctatgtaag gccatgtgcc ccttgccccta acaactcact gcagtgtctt tcatagacac 120
 atcttgccagc attthttctta aggctatgct tcagthtttht thtgtaagcc atcacaagcc 180
 atagtggtag gthttgccctt tggtagacagaa ggtgagttaa agctgggtgga aaaggcttat 240
 tgcattgcat tcagagtaac ctgtgtgcat actctagaag agtagggaaa ataatgcttg 300
 ttacaattcg acctaatatg tgcattgtaa aataaatgcc atattthcaa caaaacacgt 360
 aattthtttht cagtatgtth tattacctth tgatatctgt tgttgcaatg ttagtgatgt 420
 thtaaaatgt gatcgaaaat ataatgctth taagaaggaa cagtagtgga atgaatgtct 480
 aaaagatctt tatgtgttht tggctctgcag aaggatttht gtgatgaaag gggattthttt 540
 gaaaaat 547

<210> 64
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 374, 443, 444, 452, 476, 489, 515, 523
 <223> n = A,T,C or G

<400> 64
 cacctmctcc cscwgggcgc ttwctcsgac gccttgccca scggggccgcc cgacccctg 60
 srccatggac cccgtctgcc cctggggmt gtygatktct ctgctthttcc tgrckgaggc 120
 tgcactgggc gatgctgac argagccaac aggaaataac rcggagatct gkctcctgcc 180
 cctagactac kgacctgcc kggccctact tytccgytac tactacgaca ggyacacgca 240
 gagtgccgc cwgttctgk rckggggctg crasggcaac rccaacwatt yctacacckg 300
 kgaggmttrc gackatgctw gstggargat agaaaaagtt cccaaastth gccggctgma 360
 agtgaatgag gacnaccagg gtgaggggta cacagataag tathttctth atctaakkwc 420
 catgacatgw gaaaaattct thnncgggtg gngtcaccgc accggattga gaacangtht 480
 gcagatgang ctactgggat gggctcctgc rcacnaaaga aantatca 528

<210> 65
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 408
 <223> n = A,T,C or G

<400> 65
 kgaatgaasa acgaacgctg gaagtagaaa tagagcctgg ggtgagagac ggcattggagt 60
 acccctttat tggagaaggt gagcctcacg tggatgggga gcctggagat ttacggttcc 120
 gaatcaaagt tgtcaagcac ccaatatattg aaaggagagg agatgatttg tacacaaatg 180
 tgacagtctc attagttgag tcaactgggtg gctttgagat ggatattact cacttggatg 240
 gtcacaaggt acatatattcc cgggataaga tcaccaggcc aggagcgaag ctatggaaga 300
 aaggggaagg gctccccaac tttgacaaca acaatatcaa gggctctttg ataatacactt 360
 ttgatgtgga ttttccaaaa gaacagttaa cagaggaagc gagagaangt atcaaacagc 420
 tactgaaaca agggtcagtg cagaagggtat acaatggact gcaaggatat tgagagtga 480
 taaaattgga ctttgtttaa aataaagtga ataagcgata tttattatct gcaagggtttt 540
 ttttgtg 547

<210> 66
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 66
 ggggaggtct acgcttctag agcttgagcc agcggggcga ccctgcagtg gcaggactcg 60
 gcaccgcgcc ctccaccgcc gggttggtggc ctgcgtgaca gtttctctcc gtcgacatcg 120
 aaaggaagcc ggacgtgggc gggcagagag cttcatcgca gtaggaatgg cagccccatc 180
 tatgaaggaa agacaggtct gctggggggc ccgggatgag tactggaagt gtttagatga 240
 gaacttagag gatgcttctc aatgcaagaa gttaagaagc tctttcgaat caagttgtcc 300
 ccaacagtgg ataaaatatt ttgataaaag aagagactac ttaaaattca aagaaaaatt 360
 tgaagcagga caatttgagc cttcagaaac aactgcaaaa tcctaggctg ttcataaaga 420
 ttgaaagtat tctttctgga cattgaaaaa gctccactga ctatggaaca gtaatagttt 480
 gaatcatagt gaacatcaat acttggtccc tatatacgac acttgataat taaga 535

<210> 67
 <211> 527
 <212> DNA
 <213> Homo sapiens

<400> 67
 atttctgcca cttaattcaa acagtcatat gcaggtcgct taatttattt gtgcttttgt 60
 ttcatcttct acaaggccct cttagctcta aaacttgaca gtggaataag gaaatgtttt 120
 tccaaatctg cattgccggt gagatcctca acatcagcat gttgagatgg acctcaaccc 180
 cacctctaac cctgaaacac actactcgat attatcttag gtatgtttta gggtttagtt 240
 tgtaaaataa taatttattt ttgaaggaaa tataaaatat taaagagtaa taatagctat 300
 cattttttta gattcaatct aaaacaatgg actctttttt tttccatttg tgatgtagat 360
 aagcaagaca attttgatca tgagtgggtga aaagaggatc aaacttgact attcttgcaa 420
 tggcagtcga gcaacaagcc tttcatttac attaaattat aacttttcat tcattcctaa 480
 accaaactta aaattctgct ttcctttgag tagaagggtat ttaactt 527

<210> 68
 <211> 431
 <212> DNA
 <213> Homo sapiens

<400> 68
 gggaaacttc atggggtttcc tcactctgtca tgtcgatgat tatatatgga tacattttaca 60
 aaaataaaaa gcgggaattt tcccttcgct tgaatattat ccctgtatat tgcataaatg 120
 agagattttcc cataatttcca tcagagtaat aaatataactt gctttaattc ttaagcataa 180
 gtaaacaatga tataaaaaata tatgctgaat tacttgtgaa gaatgcattt aaagctattt 240
 taaatgtgtt tttattttgta agacattact tattaagaaa ttggttatta tgcttactgt 300
 tctaactctgg tggtaaagggt attcttaaga atttgcagggt actacagatt ttcaaaaactg 360
 aatgagagaa aattgtataa ccactcctgct gwtccttttag tgcaatacaa taaaactctg 420
 aaattaaaac t 431

<210> 69
 <211> 399
 <212> DNA
 <213> Homo sapiens

<400> 69
 gacacggcgg acacacacaa acacagaacc acacagccag tcccaggagc ccagtaatgg 60
 agagccccc aaagaagaac cagcagctga aagtcgggat cctacacctg ggcagcagac 120
 agaagaagat caggatacag ctgagatccc agtgcgcgac atggaagggt atctgcaaga 180
 gctgcatcag tcaaacaccg gggataaatc tggattttggg ttccggcgctc aagggtgaaga 240
 taatacctaa agaggaacac tgtaaaatgc cagaagcagg tgaagagcaa ccacaagttt 300
 aatgaagac aagctgaaac aacgcaagct ggtttttatat tagatatattg acttaaaacta 360
 tctcaataaa gttttgcagc tttcaccaar aaaaaaaaaa 399

<210> 70
 <211> 479
 <212> DNA
 <213> Homo sapiens

<400> 70
 cgcggcggag ctgtgagccg ggcactcggg tccctgaggt ctggattctt tctccgctac 60
 tgagacacgg cggacacaca caaacacaga accacacagc cagtcccagg agcccagtaa 120
 tggagagccc caaaaagaag aaccagcagc tgaaagtccg gatcctacac ctgggcagca 180
 gacagaagaa gatcaggata cagctgagat cccagggtgct ggggaaggga atgcgcgaca 240
 tggaagggtga tctgcaagag ctgcatcagt caaacaccgg ggataaatct ggattttgggt 300
 tccggcgtca aggtgaagat aatacctaaa gaggaacact gtaaaatgcc agaagcaggt 360
 gaagagcaac cacaagttta aatgaagaca agctgaaaca acgcaagctg gtttttatatt 420
 aggatatttg acttaaaacta tctcaataaa gttttgcagc tttcaccaaa aaaaaaaaaa 479

<210> 71
 <211> 437
 <212> DNA
 <213> Homo sapiens

<400> 71
 ctcagcgggt gccaacagat catgagccat cagctcctct ggggccagct ataggacaac 60
 agaactctca ccaaaggacc agacacagtg rgcaccatgg gacagtgtcg gtcagccaac 120
 gcagaggatg ctcaggaatt cagtgatgtg gagagggccca ttgagaccct catcaagaac 180

```

tttcaccagt actccgtgga ggggtgggaag gagacgctga ccccttctga gctacgggac 240
ctggtcaccc agcagctgcc ccattctcatg ccgagcaact gtggcctgga agagaaaatt 300
gccaacctgg gcagctgcaa tgactctaaa ctggagttca ggagtttctg ggagctgatt 360
ggagaagcgg ccaagagtgt gaagctggag aggcctgtcc gggggcactg agaactccct 420
ctggaattct tgggggg 437

```

```

<210> 72
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 72
ggatggtata ctgtaaatc agcatatgga gataccatta tcataccttg ccgacttgac 60
gtacctcaga atctcatgtt tggcaaattg aaatatgaaa agcccgatgg ctccccagta 120
tttattgcct tcagatcctc taaaaagaaa agtgtgcagt acgacgatgt accagaatac 180
aaagacagat tgaacctctc agaaaactac actttgtcta tcagtaatgc aaggatcagt 240
gatgaaaaga gatttgtgtg catgctagta actgaggaca acgtgtttga ggcacctaca 300
atagtcaagg tgttcaagca accatctaaa cctgaaattg taagcaaagc actgtttctc 360
gaaacagagc agctaaaaaa gttgggtgac tgcatttcag aagacagtta tccagatggc 420
aatatcacat ggtacaggaa tggaaaagtg ctacatcccc ttgaaggagc ggtggtcata 480
atttttataa aggaaatgga cccagtgact cagctctata ccattgactc caccctggag 540
tacaagacaa ccaaggctga c 561

```

```

<210> 73
<211> 916
<212> DNA
<213> Homo sapiens

```

```

<400> 73
ggagaaaata aggtggagtc ctacttgttt aaaaaatatg tatctaagaa tgttctaggg 60
cactctggga acctataaag gcaggatatt cgggccctcc tcttcaggaa tcttcctgaa 120
gacatggccc agtcgaaggc ccaggatggc ttttgctgcg gcccctggg gtaggaggga 180
cagagagaca gggagagtca gcctccacat tcagaggcat cacaagtaat ggcacaattc 240
ttcggatgac tgcagaaaat agtgttttgt agttcaacaa ctcaagacga agcttatttc 300
tgaggataag ctcttttaaag gcaaagcttt attttcatct ctcatctttt gtcctcctta 360
gcacaatgta aaaaagaata gtaatatcag aacagggaagg aggaatggct tgctggggag 420
cccatccagg aactgggag cacatagaga ttcacccatg tttgttgaac ttagagtcac 480
tctcatgctt ttctttataa ttcacacata tatgcagaga agatatgttc ttgttaacat 540
tgtatacaac atagcccaa atatagtaag atctatacta gataatccta gatgaaatgt 600
tagagatgct atatgataca actgtggcca tgactgagga aaggagctca cgcccagaga 660
ctgggctgct ctcccggagg ccaaacccaa gaaggctctg caaagtcagg ctcagggaga 720
ctctgccctg ctgcagacct cggtgtggac acacgctgca tagagctctc cttgaaaaca 780
gaggggtctc aagacattct gcctacctat tagcttttct ttattttttt aacttttttg 840
ggggaaaagt atttttgaga agtttgtctt gcaatgtatt tataaatagt aaataaagtt 900
tttaccatta aaaaaa 916

```

```

<210> 74
<211> 547
<212> DNA
<213> Homo sapiens

```

```

<400> 74
agtggcatta acttttagaa tttgggctgg tgagattaat tttttttaat atcccagcta 60
gagatatggc ctttaactga cctaaagagg tgtgttgtga ttttaatttt tcccgttcct 120

```

```

ttttcttcag taaacccaac aatagtctaa ccttaaaaat tgagttgatg tccttatagg 180
tcactacccc taaataaacc tgaagcaggt gttttctctt ggacatacta aaaaatacct 240
aaaaggaagc ttagatgggc tgtgacacaa aaaattcaat tactgtcatc taatgccagc 300
tgttaaaagt gtggccactg agcatttgat tttataggaa aaaatagtat ttttgagaat 360
aacatagctg tgctattgca catctgttgg aggacatccc agatttgctt atactcagtg 420
cctgtgatat tgagtttaag gatttgaggc aggggtaatt attaaacata ttgcttctat 480
tcttggaaaa atagaagkgt aaaatgttaa taatacaaat gtcactgtga cctcctccac 540
tgagagg                                           547

```

```

<210> 75
<211> 793
<212> DNA
<213> Homo sapiens

```

```

<400> 75
tgaggaagtt gcaagccaac aaaaaagttc aaggatctag aagacgatta agggaaggtc 60
gttctcagtg aaaatccaaa aaccagaaaa aaatgtttat acaaccctaa gtcaataacc 120
tgaccttaga aaattgtgag agccaagttg acttcaggaa ctgaaacatc agcaciaaga 180
agcaatcatc aaataattct gaacacaaat ttaatatattt tttttctgaa tgagaaacat 240
gagggaaatt gtggagttag cctcctgtgg agttagcctc ctgtggtaaa ggaattgaag 300
aaaatataac accttacacc ctttttctatc ttgacattaa aagttctggc taactttgga 360
atccattaga gaaaaatcct tgtcaccaga ttcattacaa ttcaaatega agagttgtga 420
actgttatcc cattgaaaag accgagcctt gtatgtatgt tatggataca taaaatgcac 480
gcaagccatt atctctccat gggaagctaa gttataaaaa taggtgcttg gtgtacaaaa 540
ctttttatat caaaaggctt tgcacatttc tatatgagtg ggtttactgg taaattatgt 600
tattttttac aactaatttt gtactctcag aatgtttgtc atatgcttct tgcaatgcat 660
attttttaat ctcaaacggt tcaataaaac catttttctc atataaagag aattacttca 720
rattgagtaa ttcagaaaaa ctcaagattt aagttaaaaa gtggtttgga cttgggaaca 780
ggactttata cct                                           793

```

```

<210> 76
<211> 461
<212> DNA
<213> Homo sapiens

```

```

<400> 76
accttgcaact attcccctca gtccatctat cgaggtcttt gcaggaagca tactgggaat 60
tgaaacgaga gcctaaatga catctaagaa aggcagtgtt caataccagg tattaggtga 120
ggatgggatt ctaaggacat cagtgggagg caggagacca ccttcagacc tcagcatgga 180
agcttccaag atccagagga agaggcaaca gcactgagag tcataggtag aagaatcatc 240
acagccctgc taaccaggca gctgatgcc cctcctcctg gctcctctgt tccaaatcct 300
acaggggcat ctgttggtg aactcaacct gaagccaaag agaagatgag tggagagagg 360
caacatttat agagctcagg tttctagggc tggagagggga tctggagggga cacacaggag 420
acacctggca taaccaaaaa atgattaaaa aaaaaaaaaa a                                           461

```

```

<210> 77
<211> 642
<212> DNA
<213> Homo sapiens

```

```

<400> 77
ggttgcacga aacacactgg ggaatggagc aaaacagtct ttgaatatcg aacacgcaag 60
gctgtgagac tacctattgt agatattgca ccctatgaca ttggtggtcc tgatcaagaa 120
tttggtgtgg acgttggccc tgtttgcttt ttataaacca aactctatct gaaatcccaa 180

```

```

caaaaaaaat ttaactccat atgtgttcct cttgttctaa tcttgtcaac cagtgcaggt 240
gaccgacaaa attccagtta tttattttcca aaatgttttg aaacagtata atttgacaaa 300
gaaaaaatgat acttctcttt ttttgctgtt ccaccaaata caattcaa atgtttttgtt 360
ttattttttt accaattcca atttcaaaaat gtctcaatgg tgctataata aataaacttc 420
aacactcttt atgataacaa aaaaaarawa wattctttga atcctagccc atctgcagag 480
caatgactgt gctcaccagt aaaagataac ctttctttct gaaatagtca aatacgaaat 540
tagaaaagcc ctccctattt taactacctc aactgggtcag aaacacagat tgtattctat 600
gagtcccaga agatgaaaaa aatttttatac gttgataaaa ct 642

```

<210> 78

<211> 519

<212> DNA

<213> Homo sapiens

<400> 78

```

gcagaagaag aagcggacct tccgcaagtt cacctaccgc ggctgtggacc tcgaccagct 60
gctggacatg tcctacgagc agctgatgca gctgtacagt gcgcgccagc ggcgggcggt 120
gaaccggggc ctgcggcgga agcagcactc cctgctgaag cgcctgcgca aggccaagaa 180
ggaggcgccg cccatggaga agccggaagt ggtgaagacg cacctgcggg acatgatcat 240
cctacccgag atggtgggca gcatggtggg cgtctacaac ggcaagacct tcaaccaggt 300
ggagatcaag cccgagatga tcggccacta cctgggogag ttctccatca cctacaagcc 360
cgtaaagcat ggccggcccg gcatcggggc caccactcc tcccgttca tccctctcaa 420
gtaatggctc agctaataaa aggcgcacat gactccaaaa aaaaaaaaaa aaggcgggcc 480
gccaccgagg gggagctcca cttttgttcc ctttaatga 519

```

<210> 79

<211> 526

<212> DNA

<213> Homo sapiens

<400> 79

```

gtctggaggc ggtgtcctct ccgccctgtc gggtcctgga tgagtacgag ttatgggtcac 60
ggtcacagcc tgatctctta tgtgttcata gccattcgct ctcccatcag aactgtttgt 120
cctgaatgtg ttctcttagt tctagaaaaat gaccactaat ttaaaaaact cggttgtgag 180
gtttgccagc aggcacttgt tccagaatct cccctcctgc ttcagccatg tccttgtcac 240
ttggcattct aagctaaagc tttagcttcc caattcgtga tgtgctaggc caagattcgg 300
gagctgttgc cagcctcgtc aaatatggaa gagaaacaac ctgcgggtcaa aaggagtgga 360
tttggttaagt ggtgcgcgtc tatctcataa ctagatgtac caaccaggga agggccaagg 420
atggaaaggg gtaacttttg tgcttccaaa gtagctaagc agaagtgggg gagcagttta 480
gccagatgat ctttgattag gcaaacattg agtttttaag aggctg 526

```

<210> 80

<211> 281

<212> DNA

<213> Homo sapiens

<400> 80

```

gttatattag tgggtagtgt aacattttat ccagggttgg gtgaggggag atggccacag 60
tagcaagtgg tgacactaaa taccattttg aaggctgatg tgtatataca tcattactgt 120
ccgtagcaat gaaggataca gtactgtgtt gtgggtgagt gttgctattg cccagcatta 180
atatttgggt gtgtatgttt gaggctatga aacacgcagg agtgtttttg tgctattaat 240
tttaagagaa agcagctttt tcttaaaatt cactgttgag a 281

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<210> 81

<211> 405
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 219, 230, 261, 306
 <223> n = A,T,C or G

<400> 81
 gtgggtggga ggcggtgctg ttgggagttg cttggaggtt ggcgggcgcg ggctgaaggc 60
 tagcaaaccg agcgatcatg tcgcacaaac aaattttacta ttcggaacaa tacgacsacg 120
 aggagtttga statcgacat gtcattgctgc ccaaggacat akccaasctg gtccctaaaa 180
 cccatctgat gtctgaatct gaatggagga atcttggcng ttcagmagan tcagggatgg 240
 gtccattata tgatccatga nccagaacct cdcattcttg tgttcggcg scccacttac 300
 cccaanaaac caamgaaatg aaccttggct actacttttc aatcctcaaa kcttttcaca 360
 vhtgaccttc cttcctaaca ttctttmtga taaacattta ttaag 405

<210> 82
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 82
 tagtttttaa gaagaaattt tttttggcct atgaaattgt taaacctgga acatgacatt 60
 gttaatcata taataatgat tcttaaatgc tgtatggttt attattttaa tgggtaaagc 120
 catttacata atatagaaag atatgcatat atctagaagg tatgtggcat ttatttggat 180
 aaaatttctca attcagagaa atcatctgat gtttctatag tcactttgcc agctcaaaag 240
 aaaacaatac cctatgtagt tgtggaagtt tatgctaata ttgtgtaact gatattaaac 300
 ctaaattgttc tgcctaccct gttggtataa agatattttg agcagactgt aaacaagaaa 360
 aaaaaaatca tgcattctta gcaaaattgc ctagtatgtt aatttgctca aaatacaatg 420
 tttgatatta tgcactttgt cgctattaac atcctttttt tcatgtagat ttcaataatt 480
 gagtaatttt agaagcatta ttttaggaat atatagtkgt cacagtaaat atcttgtttt 540
 ttctatg 547

<210> 83
 <211> 529
 <212> DNA
 <213> Homo sapiens

<400> 83
 ctattctaag agatgctctt agtgatcttg cattacactt tctgaataaa atgaagatca 60
 tgggtgattaa ggatattgaa agagaagaca ttgaattcat ttgtaagaca attggaacca 120
 agccagttgc tcatattgac caatttactg ctgacatgct gggttctgct gagttagctg 180
 aggaggtcaa tttaaattgt tctggcaaac tgctcaagat tacaggctgt gccagccctg 240
 gaaaaacagt tacaattggt gttcgtgggt ctaacaaact ggtgattgaa gaagctgagc 300
 gctccattca tgatgcccta tgtgttattc gttgtttagt gaagaagagg gctcttattg 360
 caggaggtgg tgctccagaa atagagttgg ccctacgatt aactgaatat tcacgaacac 420
 tgagtgggat ggaatcctac tgcgttcgtg cttttgcaga tgctatggag gtcattccat 480
 ctacactagc tgaaaatgcc cggcctgaat cccatttcta cagtaacag 529

<210> 84
 <211> 527
 <212> DNA

<213> Homo sapiens

<400> 84

```

cccatcacca gaatcccttc atgggagggga tggatgcctg ttgaaactca ctgacctatt 60
ggactgacgc tgggggtggta tcttcatcag agctattgta agtcatccaa aaggcttctg 120
acgaaagaac aatTTTTTaaa aagtcctctt tttcaatcaa gccaatgtcc tattttatTT 180
ctaaaagttt tgggactcgt gctgttatca agtacaatga aaatggcttt ataaatagct 240
gttttgacat tgtgatagaa ggcttgaata cggaggaaag atgtcgtctg agctagtcct 300
gagttccgac tgtccctgtg gtgggaatcc agtctgggaa agcaggactg ttttagcaaa 360
cgtgtactcg ttctataaaa atggaatctg ttctgcaggt taccgtccct ccccgcccaa 420
gcatcccttc tgtcctgtct ctctgctgct gggacccagg gctttttcag ctgcagaacc 480
cactggactt ccaggaatca aggaaaaagt ggaaatgtcc aactgtg 527

```

<210> 85

<211> 401

<212> DNA

<213> Homo sapiens

<400> 85

```

cagtgtgggt gaattcccaa gatagaaatg aaaaactctt ttatagagtg ctgacatctg 60
acattgagaa attcatgcct attgtttata ctcccactgt gggctctggct tgccaacaat 120
atagtttggt gtttcggaag ccaagagggtc tctttattac tatccacgat cgagggcata 180
ttgcttcagt tctcaatgca tggccagaag atgtcatcaa ggccattgtg gtgactgatg 240
gagagcgtat tcttggcttg ggagaccttg gctgtaatgg aatgggcata cctgtgggta 300
aattggctct atatacagct tgcggaggga tgaatcctca agaatgtctg cctgtcattc 360
tggatgtggg aaccgaaaat gaggagttag ttaaagatcc a 401

```

<210> 86

<211> 547

<212> DNA

<213> Homo sapiens

<400> 86

```

gaagcctctt gtgtttgtgt gcagagaagt atatgatcca ccatgctaata gacacttgcc 60
tttttttcca ccattaaggc tttaagaaca tgtggaataa gtttttttagc tgctaatagac 120
aaaacaaatc ctgtaactac ccagccagca agtatatagc acagaacact gtgttacttt 180
acaagggtct atgtgactgg aataagggtg tcccacttga ctgttccaaa gagcagcttc 240
tcagatcttc agtgttcact ggtaaatttc taacagtgtg tttgtgtaaa gtttgtcatt 300
tcatactcca tacactacag ttgctgtcac tgatccctgt tttgctggct tttaagctac 360
ttgggtcaaaa atcctgcttc cttaaaacat agagaattaa tgagcatctc aagctttttc 420
ttttcctttt taatgatgcc tgcactatca agagtattct agtgttctct ctttgtttgg 480
catataatca tgcaccaaac tttttatttc tttaagggtg gagtatattt ttatttccta 540
aatgcca 547

```

<210> 87

<211> 530

<212> DNA

<213> Homo sapiens

<400> 87

```

atggattcga aataccagkg tgtgaagctg aatgatgggtc acttcatgcc tgtcctggga 60
tttggcacct atgcgcctgc agagggttct aaaagtaaag ctctagaggc cgtcaaattg 120
gcaatagaag ccgggttcca ccatattgat tctgcacatg ttacaataa tgaggagcag 180
gttggactgg ccatccgaag caagattgca gatggcagtg tgaagagaga agacatatc 240

```


tacacttcaa	agcttttgag	caattcccat	cgaccagagt	tggtccgacc	agccttggaa	300
aggtcactga	aaaatcttca	attggactat	gttgacctct	atcttattca	ttttccagt	360
tctgtaaagc	caggtgagga	agtgatccca	aaagatgaaa	atggaaaaat	actatttgac	420
acagtggatc	tctgtgccac	rtgggaggcc	atggagaagt	gtaaagatgc	aggattggcc	480
aagtcacatcg	gggtgtccaa	cttcaaccac	aggctgctgg	agatgatcct		530

<210> 88

<211> 529

<212> DNA

<213> Homo sapiens

<400> 88

acctgagcta	agaaggataa	ttgtcttttg	gtaactaggt	ctacaggttt	acatttttct	60
gtgttacact	caaggataaa	ggcaaaatca	attttgtaat	ttgttttagaa	gccagagttt	120
atcttttcta	taagtttaca	gcctttttct	tatatataca	gttattgcca	cctttgtgaa	180
catggcaagg	gactttttta	caatttttat	tttattttct	agtaccagcc	taggaattcg	240
gttagtactc	atttgtattc	actgtcactt	tttctcatgt	tctaattata	aatgaccaa	300
atcaagattg	ctcaaaagg	taaatgatag	ccacagtatt	gctccctaaa	atatgcataa	360
agtagaaatt	cactgccttc	ccctcctgtc	catgaccttg	ggcacaggga	agttctgggt	420
tcatagatat	cccgttttgt	gaggtagagc	tgtgcattaa	acttgcacat	gactggaacg	480
aagtatgagt	gcaactcaaa	tgtgttgaag	atactgcagt	catttttgt		529

<210> 89

<211> 547

<212> DNA

<213> Homo sapiens

<400> 89

gttttatatat	atagcgaata	aatctagttg	tataaatttt	taaatgccgt	cagtagaaag	60
cacacaaggt	tatgattttt	ttaattactg	gcttctgatt	tctttcactt	ctgattcctt	120
tcctttttct	cagatgtagc	tgagtcttga	tcatttttaag	acaacgatgg	gtagaatttt	180
gagattaatg	ttaattttcc	ctttttgtta	atttcagtcc	cctctcacta	tgcttttgtc	240
cagaaggatc	aagaattcta	ccatcccttg	ggcttttgtg	tataaacaat	gttaaataaa	300
ggtagactca	gtctttaaga	tattagacag	tttttttagt	ccatgggatt	gtaaatataa	360
acattaactt	tcctataaga	atattttggc	tttgtaatct	atagcctcaa	attggatttt	420
attatggatt	cactagacaa	acagctgttt	ccttattgtc	ttttttcttt	agtgtttctg	480
atttgctatc	agtagctgtt	tttaaagcca	tccaaggaaa	ataattattt	acagtttttg	540
aagtcac						547

<210> 90

<211> 528

<212> DNA

<213> Homo sapiens

<400> 90

gagcagcaga	agctgtacag	caagatgatc	gtggggaacc	acaaggacag	gagccgctcc	60
tgagcctgcc	tccagctggc	tggggccacc	gtgcggggtg	ccaacgggct	cagagctgga	120
gttgccgccc	ccgccccac	tgtgtgtcc	tttccagact	ccagggctcc	ccgggctgct	180
ctggatccca	ggactccggc	tttcgcccag	ccgcagcggg	atccctgtgc	acccggcgca	240
gcctaccctt	ggtggtctaa	acggatgctg	ctgggtgttg	cgacccagga	cgagatgcct	300
tgtttctttt	acaataagtt	gttgaggagaa	tgccattaaa	gtgaactccc	cacctttgca	360
cgctgtgcgg	gctgagtgg	tggggagatg	tggccatgg	cttgtgctag	agatggcggt	420
acaagagtct	gttatgcaag	cccgtgtgcc	agggatgtgc	tgggggcggc	caccgctct	480
ccaggaaagg	cacagctgag	gcactgtggc	tggcttcggc	ctcaacat		528

<210> 91
 <211> 547
 <212> DNA
 <213> Homo sapiens

<400> 91
 atataccatt taatacatTT acacttttctt atttaagaag atattgaatg caaaataatt 60
 gacatataga actttacaaa catatgtcca aggactctaa attgagactc ttccacatgt 120
 acaatctcat catcctgaag cctataatga agaaaaagat ctagaactg agttgtggag 180
 ctgactctaa tcaaatgtga tgattggaat taraccmttt ggscyttgra ccttymtwrg 240
 raaaawgrmc cmaccttTyt taacmtgrac cwccytmatc tctagaagct gggatggact 300
 tactatyctk gttwatatTT taaatackga aagggtgctat gcttctgtta ttattccaag 360
 actggagata ggcagggcta aaaaggtatt attatTTTTc ctttaatgat ggtgctaaaa 420
 ttcttcctat aaaattcctt aaaaataaag atgggtttaat cactaccatt gtgaaaacat 480
 aactgttaga cttcccgttt ctgaaagaaa gagcatcggt ccaatgcttg ttcactgttc 540
 ctctgtc 547

<210> 92
 <211> 527
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 393, 502
 <223> n = A,T,C or G

<400> 92
 gctggctagt aggggaacat gtagtagcca agcccatgca ttgcagtgca cagagcaaca 60
 ttggggtaac aggatgggta cctgtcacgg cctgtgcaaa cataacatgt gtcaccacac 120
 tgaaggatat gtggaacaag tggcctcacc aaggtcggac cccaatggac tttttgcctc 180
 ttgggagctt atgggtctat gaggacacag tagcctttcc tatcagcaaa ctggagtgga 240
 tgttgtatct ggggggtggc ttatgtacct gctactgttc tccccacatt gccagatgc 300
 ctgtataact gggaggcact gkgctctcag tttttgcgaa tgtgatgagc cccctgggtgt 360
 ttctaccctt ttggcaatga ctatccctgg agncatgtgt caaaactgta aagcacaatt 420
 tactgctctt tgcggagcac accgctcatg ctctgaatta cacctgaktg tccctcctcc 480
 wgktawtgaa tgaggttgat cnvatcagaa adgtggkggt ggcmata 527

<210> 93
 <211> 531
 <212> DNA
 <213> Homo sapiens

<400> 93
 ggtattcata cagccttcct aaaggcaatg ctttccacag gatttaagat accccagaaa 60
 ggcatcctga taggcatcca gcaatcattc cggccaagat tccttggtgt ggctgaacaa 120
 ttacacaatg aaggtttcaa gctgtttgcc acggaagcca catcagactg gctcaacgcc 180
 aacaatgtcc ctgccacccc agtggcatgg ccgtctcaag aaggacagaa tcccagcctc 240
 tcttccatca gaaaattgat tagagatggc agcattgacc tagtgattaa ccttcccaac 300
 aacaacacta aatttgtcca tgataattat gtgattcgga ggacagctgt tgatagtgga 360
 atccctctcc tactaattt tcaggtgacc aaactttttg ctgaagctgt gcagaaatct 420
 cgcaaggtgg actccaagag tcttttccac tacaggcagt acagtgctgg aaaagcagca 480
 tagagatgca gacaccccag cccattatt aaatcaacct gagccacatg t 531

<210> 94
 <211> 547
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 547
 <223> n = A,T,C or G

<400> 94
 gttaaacaatg gtctgcgtgc cttaagagag acgcttcctg cagaacagga cctgactaca 60
 aagaatgttt ccattggaat tggttggtaaa gacttggagt ttacaatcta tgatgatgat 120
 gatgtgtctc cattcctgga aggtccttgaa gaaagaccac agagaaaggc acagcctgct 180
 caacctgctg atgaacctgc agaaaaggct gatgaaccaa tggaacatta agtgataagc 240
 cagtctatat atgtattatc aaatatgtaa gaatacaggc accacatact gatgacaata 300
 atctatactt tgaacccaaa gttgcagagt ggtggaatgc tatgttttag gaatcagtcc 360
 agatgtgagt tttttccaag caacctcact gaaacctata taatggaata catttttctt 420
 tgaaagggtc tgtataatca ttttctagaa agtatgggta tctataactaa tgtttttata 480
 tgaagaacat aggtgtcttt gtgggttttaa agacaactgt gaaataaaat tgtttcaccg 540
 cctggtn 547

<210> 95
 <211> 1265
 <212> DNA
 <213> Homo sapiens

<400> 95
 gtgggtcaagc agtgattttt ctgggactgc agaagttcct gctgtgccca acctttatta 60
 ctaactggga aagaccagc gagactggga tgggctcatg attctacata cagaactcat 120
 ccaagaaagg aggaaaagct gatttttgtg aacgtcgcta cttgtgcctg aactaactct 180
 caggcacatt agtcagaaaa tactacctat gggtactccc ccaggttcct aaaagtaaag 240
 ctttagaggc caccaaattg gcaattgaag ctggcttccg ccatattgat tctgctcatt 300
 tatacaataa tgaggagcag gttggactgg ccatccgaag caagattgca gatggcagtg 360
 tgaagagaga agacatatc tacacttcaa agctttgggtg caattcccat cgaccagagt 420
 tgggtccgacc agccttgga aggtcactga aaaatcttca attggattat gttgacctct 480
 accttattca ttttccagtg tctgtaaaagc cagggtgagga agtgatccca aaagatgaaa 540
 atggaaaaat actatttgac acagtggatc tctgtgccac gtgggaggcc gtggagaagt 600
 gtaaagatgc aggattggcc aagtcacatc ggggtgtccaa cttcaaccgc aggcagctgg 660
 agatgatcct caacaagcca gggctcaagt acaagcctgt ctgcaaccag gtggaatgtc 720
 atccttactt caaccagaga aaactgctgg atttctgcaa gtcaaaaagac attgttcttg 780
 ttgcctatag tgctctggga tcccaccgag aagaaccatg ggtggacccg aactcccccg 840
 tgctcttgga ggaccagtc ctttgtgcct tggcaaaaaa gcacaagcga accccagccc 900
 tgattgccct gcgctaccag ctrcagcgtg gggttgtggc cctggccaag agctacaatg 960
 agcagcgcac cagacagaac gtgcagggtt ttgagttcca gttgactgca gaggacatga 1020
 aagccataga tggcctaaac agaaatgtgc gatatttgac ccttgatatt ttgctggcc 1080
 cccctaatta tccattttct gatgaatatt aacatggagg gcattgcatg aggtctgcca 1140
 gaaggccctg cgtgtggatg gtgacacaga ggatggctct atgctgggtg ctggacacat 1200
 cgctcttggt taaatctctc ctgcttggtg atttcagcaa gctacagcaa agcccattgg 1260
 ccaga 1265

<210> 96
 <211> 568

<212> DNA
<213> Homo sapiens

<400> 96

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ccagtgtggt ggaattcggg ttaattacaa aatttgatca cgatcatatt gtagtctctc 60
aaagtgtctt agaaattgtc agtggtttac atgaagtggc catgggtgtc tggagcaccc 120
tgaaactgta tcaaagttgt acatatctcc aaacattttt aaaatgaaaa ggcactctcg 180
tgttctcttc actctgtgca ctttgctgtt ggtgtgacaa ggcattttaa gatgtttctg 240
gcattttctt tttatttgta aggtgggtgg aactatgggt attggctaga aatcctgagt 300
tttcaactgt atatatctat agtttgtaaa aagaacaaaa caaccgagac aaacccttga 360
tgctccttgc tcggcggttg ggctgtgggg aagatgcctt ttgggagagg ctgtagctca 420
gggcgtgcac tgtgaggctg gacctgttga ctctgcaggg ggcattccatt tagcttcagg 480
ttgtcttggt tctgtatata gtgacatagc attctgctgc catcttagct gtggacaaag 540
gggggtcagc tggcatgaga atattttt 568
```

<210> 97
<211> 546
<212> DNA
<213> Homo sapiens

<400> 97

```
ttgtaccgta tctgtaggca tctgttaa atattccaagg ggaaaactaa acgaggacgt 60
gggttgtatc ctgccagggt gagtggggct cacacgctag ggtgagatgt cagaaagcgc 120
ttgtatttta aacaaccaa aagaattgta aggggtggct gctgccaggc ttgcactgcc 180
gttcctgggg gtgtgcatct tcgggaaagg tgggtggcgg gcgtccacta ggtttctctg 240
ccctgtctgc tccttccgta agaaaatgaa atattctatg cctaatactc acacgcaaca 300
tttcttgtac tttgtaagtc gtttgcgaga atgcagacca cctcactaaa ctgtaaacgg 360
taaagagatt tttacttttg gtctccgtga gtcgcatctc tactaagggt tacacaggaa 420
ttccacctga agacttgtgt taaagttcta cagcgcgcac tgttaactga acgtcttttt 480
cttcagccta tacgcggatc cttgttttga gctctcagaa tcactcagac aacattttgt 540
aactgc 546
```

<210> 98
<211> 547
<212> DNA
<213> Homo sapiens

<400> 98

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tactgggtgc caagctatgt gccaggcact ttacatgtat tgattttaaca cttaacagcc 60
actctatatt attccctttt tacagatgag gcaattttaag ctcaaagcat ttaagtagac 120
aaccaacct gaatcacata gcaaatgaca gaagccagag gcctcccaag tctctctaac 180
tccaaacct atgcttactc tactatatca cactaccttg caataggaca aagggaatat 240
gtggtaaact atgttcccag catctaaaag ccaggagtgg ttttcathtt tctttaagaa 300
gatgatagtg tgatttgaaa catatctgaa tttcagaaga ggggactttt aaaaattgcc 360
actcataagg aaagaaagaa ctttttcaca tatttttgaa agaaacgatg gtgagaagat 420
attcttgata atagagatat gctaacattt gctttgggtg tttttagagt tagatttttt 480
tggtgtgtac tttataggct tgcataattgc ttacttttaa cagctgaagt tctaagtaag 540
agtgttc 547
```

<210> 99
<211> 122
<212> DNA
<213> Homo sapiens

<400> 99

```
cagcctttct gtcacatctt ccacagccca cccatccctt gagcacacta accacctcat 60
gcaggcccca cctgccaata gtaataaagc aatgtcactt ttttaaaaca aaaaaaaaaa 120
aa 122
```

<210> 100

<211> 449

<212> DNA

<213> Homo sapiens

<400> 100

```
ctgacggctt tgctgtccca gagccgccta aacgcaagaa aagtcgatgg gacagttaga 60
ggggatgtgc taaagcgtga aatcagttgt ccttaatttt tagaaagatt ttggtaacta 120
ggtgtctcag ggctgggttg gggtcctaaag tgtaaggacc ccctgccctt agtggagagc 180
tggagcttgg agacattacc ccttcacacg aaggaatttt cggatgtttt cttgggaagc 240
tgttttggtc cttggaagca gtgagagctg ggaagcttct tttggctcta ggtgagttgt 300
catgcgggta agttgaggtt atcttgggat aaagggctct ctagggcaca aaactcactc 360
taggtttata ttgtatgtag cttatatatt ttactaaggt gtcaccttat aagcatctat 420
aaattgagtt ctttttctta gttgtatgg 449
```

<210> 101

<211> 131

<212> DNA

<213> Homo sapiens

<400> 101

```
ccatgttctc tcttgactac gcatatgtga gatttgcccc tccgccccgc tcgtgatagc 60
catccagatc ttttacctgg ccctgtcttg gagaatctgt tttcaatctc cactgattgc 120
ccccttgctg g 131
```

<210> 102

<211> 199

<212> DNA

<213> Homo sapiens

<400> 102

```
ctgctgcgcc tgatgctggg acagccccgc tcccagatgt aaagaacgcg acttccacaa 60
acctggattt tttatgtaca accctgaccg tgaccgtttg ctatatctct ttttctatga 120
aataatgtga atgataataa aacagctttg acttgaaaaa aaaaaaaaaa aaaaaaaaaa 180
aaaaaaaaaa aaaaaaaaaa 199
```

<210> 103

<211> 321

<212> DNA

<213> Homo sapiens

<400> 103

```
tttttttaggt ttttaaactt tttatattgca tattaataaaa attgtgcatt ccaataatta 60
aaatcatttg aacaaaaaaaa aatggcactc tgattaaact gcattacagc ctgcaggaca 120
ccttgggcca gcttggtttt actctagatt tcaactgtcgt cccaccccca cttctttcac 180
ccactttttt ccttcaccaa catgcaaagt ctttccttcc ctgccacca gataatatag 240
acagatggga aaggcaggcg cggccttcgt tgtcagtagt tctttgatgt gaaaggggca 300
gcacagtcac ttaaacttga t 321
```

<210> 104
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 104
 tttttttttt tttttatttt ttttttttgc tcaaaaaact ttattttccat ttggcccaag 60
 gcttggttagg atagttaaaa aagctgccta ttggctggag ggagaggctt aggcaaaacc 120
 cctattactt tgcaaggggc ccttcaaaaag tctctgggct tctatttcaa ccgcgatgat 180
 gtggctctgg aaggcgtgag ccactttttc cggaactgg ccaaggaaaa gcccgagggc 240
 tacaaccgtt tcctgaaaat gcaaaaccag cggggcggcc gcgctctttt ccaggacatc 300
 aaaaagcca 309

<210> 105
 <211> 591
 <212> DNA
 <213> Homo sapiens

<400> 105
 cttattttctg catgggtcgg agagtgggcg ggactgcttt actgagttat agtgaatgta 60
 gttttaacct aagcgctca catgactaac tcctcatcca tcaagaatga gctcagctct 120
 cacttcccca ctctcaccc ccctgtaaag taacctttct ccaaggttat gcttcaacag 180
 gaatagctaa catttattaa attgtggcac gtaagtatct tggatatatt ggctcattga 240
 atcctcacac ctactatttt acagagatgc cagtggggct tgagattgaa tcaactgccc 300
 aggctccac tgctggtaaa cagtagagg ggctcctgac ccatcagctt ggcttgacaa 360
 cccattccct caactgcgga tcccggatcc ccttatcacc ctgttgattt ctccataggc 420
 tgtggtaaca tttgttgcac gaatggaccg ttgaaatagg gcctggcagg gagaaattca 480
 ggaaatgaat gaatggttct tcctggcag cctttgatga cttacaagcc ccttcaaggg 540
 ggaaagccat ttttctccct gggactcctt gaaagcccg gagccctgcc t 591

<210> 106
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 106
 ctgccactcc tgccctctgct accccgaaac cggagaggga gctcaataat aacacaggtc 60
 ccactaaact aattaagggtg ttggcataac ctgtcattga attcaagtgt ccaacaactg 120
 tttgcttaaa atatcattag acctaataatt tttttcaaag gcacaaagt taaacatggg 180
 gggggcgggt gttgagagggt gtctgggata cccttaaacc caaaaaagtg atttgttccc 240
 ccttgcccag aagggtgact gttccactgg gcctgtcacc acaggacatt ttccatgaca 300
 agcactcacc ttcttgggga aggggcatca ggttggcaca ggaaaggccc aagtgagggg 360
 ccactctgta cattaatact ttggtgatta atgtttgggg agaggcagga ttctcaccca 420
 cctttttgac ttcaaacact ctcaactcaag 450

<210> 107
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 107
 tcgacgaaag ttactgtcac tcagttgtaa atccatcagc ttttcacctg ttaaaaattt 60
 tgcaaaatat acatgttctc ctctgtttt caattcttcc atcttttttc ttgagg 116

<210> 108
 <211> 291
 <212> DNA
 <213> Homo sapiens

<400> 108
 ctgctcgaag ttgtcaaaac ccacgtgcag ggcaatggag agtccgatgg ccgaccacag 60
 cgagtagcgt cctcccaccc aatcccagaa ctggaacatg ttttgagggt caattccaaa 120
 ctctttcact ttggttgtgt tagtagacag ggcaacaaag tgcttcgcca ctgcagtagg 180
 atccttggcc gcctggagaa accactcctt cgccgtctct gcattcgtga tggctctcctg 240
 ggtagtaaag gtcttggagg caatgatgaa cagggaggac tcgggggttca g 291

<210> 109
 <211> 662
 <212> DNA
 <213> Homo sapiens

<400> 109
 gctgtttcca cagtacgcct gcctcacacc ttgcgatgcg ccaacatcac catcattgag 60
 caccagaagt gtgagaacgc ctaccccggc aacatcacag acaccatggg gtgtgccagc 120
 gtgcaggaag ggggcaagga ctctgccag ggtgactccg ggggccctct ggtctgtaac 180
 cagtctcttc aaggcattat ctctggggc caggatccgt gtgcgatcac ccgaaagcct 240
 ggtgtctaca cgaaagtctg caaatatgtg gactggatcc aggagacgat gaagaacaat 300
 tagactggac ccaccaccca cagcccatca cctccattt ccaattgggt tttggttcct 360
 gttcactctg ttaataagaa accctaagcc aagaccctct acgaacattc tttgggcctc 420
 ctggactaca ggagatgctg tcaacttaata atcaacctgg ggttcgaaat cagtgaagacc 480
 tggattcaaa ttctgccttg aaatatgtg actctgggaa tgacaacacc tggtttggtc 540
 tctgtttgtat ccccgagccc aaaagacagc tcttggaact tgccccgggg cgccccgctc 600
 ggaaaggggg cgaaatttct tcaagaatat ttccatttcc acaaacttgg ggccgggggc 660
 cc 662

<210> 110
 <211> 323
 <212> DNA
 <213> Homo sapiens

<400> 110
 tctgtgaaa cagcccatth tctacctac tgtgggttgc tgctcaggag gaacgatata 60
 cgccaataca agcaggaaat ctgcagctcc tctgctatgt gcctcagaac actttcaatt 120
 tttctgggtca atgctctgat taggtatcat acataaaagc cagcatatta gtttaaatct 180
 ctaacaaaaa actatattht ccaaagtcac tatcatttgg gccaatlaag tgatcttttc 240
 gtgctttgtt gagcttcate tttagggcat ctcttcttcc ttcccattea tgaagttcgg 300
 catttccatg tgcaaattta cag 323

<210> 111
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 111
 tccagtgcgc tccagcctta tctaggaaag gaggagtggg tgtagccgtg cagcaagatt 60
 ggggcctccc ccatcccagc ttctccacca tcccagcaag tcaggatata agacagtcct 120
 cccctgaccc tcccccttgt agatatcaat tcctaaacag agccaaatac tctatatcta 180
 tagtcacagc cctgtacagc atttttcata agttatatag taaatgggtc gcatgatttg 240

tgcttctagt gctctcattt ggaaatgagg caggcttctt ctatgaaatg taaagaaaga 300
aaccactttg tatattttgt aataccacct ctgtgg 336

<210> 112
<211> 218
<212> DNA
<213> Homo sapiens

<400> 112
tttttttttt tttttttttt tccagtcagg agtattttta atcactgtct acagagacac 60
ctacatacac acacgggtgg ggaatgaacc caaagttttt aggtgaagtc tctcagggcc 120
caccocgtgc cacagacctt cctcggttgc agagattctg ggcaaagcat ccgtgctctc 180
atgagattat cctgggggaga tttagaagaa ttttgtgg 218

<210> 113
<211> 533
<212> DNA
<213> Homo sapiens

<400> 113
ctgcaccgac agttgcgatg aaagtcttaa tctcttccct cctcctgttg ctgccactaa 60
tgctgatgtc catggtctct agcagcctga atccaggggt cgccagaggc cacagggacc 120
gaggccaggc ttctaggaga tggctccaga aaggcggcca agaattgtgag tgcaaagatt 180
ggttcctgag agccccgaga agaaaattca tgacagtgtc tgggctgcca aagaagcagt 240
gcccctgtga tcatttcaag ggcaatgtga agaaaacaag acaccaaagg caccacagaa 300
agccaaacaa gcatcccaga gctgcccagc aatttctcaa acaatgtcag ctaagaagct 360
ttgctctgcc tttgtaggag ctctgagcgc ccactcttcc aattaaacat tctcagccaa 420
gaagacagtg agcacacctt ccagacactc ttcttctccc acctcactct cccactgtac 480
ccacccttaa atcattccag tgctctcaaa aagcatgttt ttcaagatct aaa 533

<210> 114
<211> 261
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 43
<223> n = A,T,C or G

<400> 114
ccatatctgc tcggcgctac ttctttcttg gattgactct gantgatgca ttggcgatgc 60
ctttggagaa ggacatgtga tgtgatggtc ttcacgttcc acatgtactc gggcaaatag 120
ggggacaaac tgaagttaaa caggtcgaaa ctagaggagc tgctgaccct ggagctgacc 180
actttcttgg ggaaaaggac acatgaaggt gctttgcaaa agctgatgag caatctggac 240
accaacatag gacaacaacg t 261

<210> 115
<211> 267
<212> DNA
<213> Homo sapiens

<400> 115
cctctcctgt gggttccaga cctgttcca gcaacaattg ctgggacacc tgggccgact 60

gctccacctc gccaggccct ggccctctcc atctcagccc tgacagccac ccagtgataa 120
 acacagcagg cttcctaagc aatgtgacgc accagagggg tgggtggtaca cgttcccctt 180
 gaagtcattc gaaaattaga gaacagattt gcctcatagc tgaagagaga ccctattcca 240
 agcatgaatg gccttgacaa tgttcct 267

<210> 116
 <211> 239
 <212> DNA
 <213> Homo sapiens

<400> 116
 ctgatgacct ggggtctagt gaaaatgcag ggtcagattc agtgggtctg gggctctgaat 60
 ctctaaggcg ctgccaagtg atgctgatgc tcctggcttg tggaccaccc tgtgtatagc 120
 aaagctctag actaggaggt ctcaaccttg gctgcacaga attatctggg gagtttttaa 180
 atttcccagt gcccaggctg cattcatatc atagtagaga caggggtttg ccatgctgg 239

<210> 117
 <211> 168
 <212> DNA
 <213> Homo sapiens

<400> 117
 aaaaaacttt tatattgctg catcttccac agttcttttg gtagtctctg aacttaaaat 60
 ttgtaggagt tgtagactac ctaaattttt aagttatgga tttgttcata gggtgtaggg 120
 gtaggtaaag aaggaaacag acaagaaaat ggcttcttga ggtggcag 168

<210> 118
 <211> 150
 <212> DNA
 <213> Homo sapiens

<400> 118
 aaaaaaaga gtttatttag aaagtatcat agtgtaaaca aacaaattgt accactttga 60
 ttttcttgga atacaagact cgtgatgcaa agctgaagtg tgtgtacaag actcttgaca 120
 gttgtgcttc tctaggaggt tgggtttttt 150

<210> 119
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 119
 aaactgtgtg agatattaac cagccgccct gttataaaat caggaaatcc aaacagcgat 60
 ttacaccgat taacaccccc ttttatattt tttcaaatac actgagaaaa taatcaaacg 120
 ttttcatctc tcttgtcttt ttttggtttt tcct 154

<210> 120
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 120
 ctgcgtggag tgacgggagg agggaatcac tgtgtgtgcg agagtgcctc agactcaatt 60
 tccaaaataa ttttcacccc tctaagcatg taaattcaaa gatggatcct tcatagaaat 120

taaaaaatca atttgagctc atttcgaata cagaacaagt atggcacaga tggaagtcct 180
gccacgtttc ctttaatgat gctgactctt gtatcacaca ggccagcatg aagtttctta 240
ctcagacttt acaggcattt tccgtaattc aatcagtcct gctcccagca caacacagga 300
ggtgattcga gaat 314

<210> 121
<211> 601
<212> DNA
<213> Homo sapiens

<400> 121
aaaaaaaaacc taattcattg aagtaataac caaataattt tcaatcttga ttcaactgtg 60
attcaaatct tacaccattt gccccttcta tgaatttatg tataaaattt tttaagagtc 120
agagtttttt tttcttgatt aattggatgt atttcacaga atttccaact gtcacgtta 180
gttttcttcc ttttagagtt gatctctcta atgtattaga tcttcatgcc tttgatagtc 240
tctctggaat aagtttgcag aaaaaacttc agcatgtgcc aggaacacaa cctcaccttg 300
atcagagtat tgtacaatca catttgacgt accaggaaat gcaaaggaag aacatcttaa 360
tatgtttatt cagaatcttc tgtgggaaaa gaatgtgaga aacaaggaca atcactgcat 420
ggaggtcata aggctgaagg gattgggtgc aatcaacgac aaatcacaac aagtgattgt 480
ccaggggtgc catgagctct gtgatctgga ggagactcca gtgagctgga aggatgacac 540
tgagagaaca aatcgattgg tcttcattgg cagaaattta gataaggata tccttaaaca 600
g 601

<210> 122
<211> 486
<212> DNA
<213> Homo sapiens

<400> 122
ctgtttctaa ttgcttttgt gactgttacc ttttagttca tgccccccca aagagctaaa 60
tttcacattt ttacctacaa aattgatttt taattcctgc aaataattta ccattatgag 120
ctacaagggtg ggcaacagcg cctgaggatc taatttttatg catattactc ccaagtattt 180
taacacttgt tggagaagca atatctggat caataaaaca ctgtcccatc aaccatttga 240
gtggggagag ggagaagctc ttctgtaagt aagattcttg caagctcttt gaaatgagtc 300
ttctttccca cagattttct ctactctttc aatacaaaaca gataggagaa gagggaaatg 360
aaacctggag gaacttgaat atttttgttc tagatagaga tacagttatt gaaaaggaaa 420
cctagaaagt agtcacacgt cgcttattta ggccagaagt aattgtactg ggcaaaaatt 480
tcactt 486

<210> 123
<211> 239
<212> DNA
<213> Homo sapiens

<400> 123
ctggtgggtc tttttttcct ctcagagctc aagcctgtag tgcctgatgt catttctttc 60
aagttgcca cagtatctcc acttaaaacta ggctagtaac caaaataatg tggaccttct 120
ttaggaaaca gtgtgggaga ataggagtcc agccgtaaga taaactggaa atatttgggc 180
gtcttgtacc tggctacgca ccacctcagt gttgttccta cataaacaag gcccctttt 239

<210> 124
<211> 610
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 12, 30, 73, 75
 <223> n = A,T,C or G

<400> 124
 ccaccaagt cnttgatgat cactgaccen cgcgcgcttg ctggaccaag gtggctgcgg 60
 ggaaatcgcc acngngcttt cggttttctt ggtgaaggaa tacacgcgc cgacagcagg 120
 ttttcagtca gggtcaggga ctggtgcttg cgcgcgaaaa tcaccggtac gccgaggttc 180
 aggcgggtca tgatcgccgg tgcaatgccc gaggcttcga tgggtgacgat cttggtgatg 240
 cccgaatcct tgaacaacgc agcgaattca tcaccgatca gtttcatcag cgccgggtcg 300
 atctggtggt tcagaaaggc gtcgaccttg agtacctgat cggaaagcac gatgccttct 360
 tcgcgaattt tcttgtgcag tgcttccacg aaagcttcct ctggtggcgc aacacgcgcc 420
 gaaagtagat taaaaagtag tcgattctag cgctttaaca tcgcgcgtat atccgccagg 480
 gcggtattgc cgcaacggc ttgacttcg gttggtgtgt cgtcgttgcc ttcccatgcc 540
 aggtcatccg gcggcagttc gtcaagggaac cggctggggg cacaatcaat gatctcgccg 600
 tactgcttgc 610

<210> 125
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 125
 ctatagggct cgagcggccg cccgggcagg taaaaaatca gcccctaatt tctccatggt 60
 tacacttcaa tctgcaggct tcttaaagtg acagtatcct taacctgcca ccagtgtcca 120
 ccctccggcc cccgtcttgt aaaaagggga ggagaattag ccaaacactg taagctttta 180
 agaagaacaa agtttt 196

<210> 126
 <211> 247
 <212> DNA
 <213> Homo sapiens

<400> 126
 aaattagtta aaaaaatgca ttcctcatth gatatagcca cattccaaat gcttaaaagc 60
 cgcatgtatc tagtgactac catactggag agtacaaata tagaacttta cccgtcactg 120
 cagacagttc tggtggattg tgcagcattg gacaatatat acagtttgcc tgtatatgag 180
 aaagagagag agagagagag tgtgtgtgtg tgtgtgtgtg tgaagtgcaa taaggctgac 240
 aggcac 247

<210> 127
 <211> 590
 <212> DNA
 <213> Homo sapiens

<400> 127
 cctccacggc atggcgcaat tggtgttcag gggccgccag gttgctgccc atgccgatgt 60
 agatacgttc cacgtgctta ctgcgcagac gactcgaag cgtcgccagc gctacgtttg 120
 cgcttgctgc cactgctgcg gcgacgcttt ttcgggccat cgccgggtggc ttcgcctttg 180
 ctgctgagct ctttgatcat ctgcgcgcgc tggctgtcgt tggcgtcctg gtagtcggtc 240
 caccactcgc caaggccgct ggtctgttcg ccggcgcttt cacgcagcag caggaagtca 300
 tagcccgcca cggaagcgcg ggttgtccag caacaggtcg gcacgtttgc cgctgcggcg 360

```

tggcaggcgc tcctgcatgt cccagatttc acggatcggc atggtgaagc gtttcgggat 420
ggcgatgcgc tggcattgct cggcgatcag ctctgtgagca gcttcctgca tggctggaat 480
tgccggcatg ccacgggtctt gcaggcgcgt gacgcgtttc gaaagcgcgg gccacaacag 540
ggcggcaaag aggaacgccg gggtgaccgg tttgttctgc ttgatgcgca 590

```

```

<210> 128
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<400> 128
ctgcccattgg aaaccctcca ggagctgctg gacctgcaca ggaccagtga gagggaggcc 60
attgaagtct tcatgaaaaa ctctttcaag gatgtaacca aagtttccag aaagaattgg 120
agactctact agatgcaaaa cagaatgaca tttgtaaacg gaacctggaa gcctcctcgg 180
attattgctc ggctttactt aaggatattt ttgggtccct agaagaagca gtgaagcagg 240
gaattttattc taagccagga ggccataatc tcttcattca gaaaacagaa gaactgaagg 300
caaagtacta tcggggagcct cggaaaggaa tacaggctga agaagttctg cagaaatatt 360
t 361

```

```

<210> 129
<211> 546
<212> DNA
<213> Homo sapiens

```

```

<400> 129
aaaaatacaa attcagtaag acttttgctc taacaacaat ttttcaaaac gaatcaacaa 60
caaaaaagta tccagtgttt ctctttcttat gaagatataa taaaacacag tattggtaag 120
cacatttttaa cagtatgctt ttcttttgta gggaaaggag atatggctat gtctaaccatc 180
gtgggatcca atgtgtttga tatgttgctc cttggtattc catggtttat taaaactgca 240
tttataaatg gatcagctcc tgcagaagta aacagcagag gactaactta cataaccatc 300
tctctcaaca tttcaattat ttttcttttt ttagcagttc acttcaatgg ctggaaacta 360
gacagaaagt tgggaatagt ctgcctatta tcatacttgg ggcttgctac attatcagtt 420
ctatatgaac ttggaattat tggaaataat aaaataaggg gctgtggagg ttgatattat 480
taatagtgtt atgcagaaaa tatgaatggc agggaggggc agagagaaaa atccatttct 540
tcattt 546

```

```

<210> 130
<211> 733
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 611, 631, 668, 689
<223> n = A,T,C or G

```

```

<400> 130
ggggcctctt cctaaaggca ctaatcccat ccaatagggc ttaacctcat gacttaatca 60
actttcaaag acaccacatc ctaatgccat cacatcagaa tttaggcttc aacatatgaa 120
ttttgggggg acacaaacat tcacctcata gcattcattg tttcttggtt ttggcaaagc 180
caagactcac attgtctaag ttatttgact tttgagtcgg cagatgtgaa aacagtgcct 240
aacagtccag cttcatgagt ggagaacagc atttgtgaca accaccaag tacctctgtg 300
gtcagtggtc tcaaccaggg cacagcatca tggaccagag cctctgcagg gcacagagga 360
gtggtgagga acaggggctc tggagcaacc ccacttccct ctgctttgta tatggggggt 420

```

```

tctgcacatg actgcatttg aaaagggcct cactgcgcct gctgaaggag tgcacttgag 480
ctagcggaga gttcccagag ggtgtctgga agaagcaaag gctattcttt gtttcactca 540
gttatagatg gaagtcagac acttctgcct gaagtacttt cacacactcc acagtcttaa 600
gaaggatgga naaagcatgc caactactca naaaaccaca ggtgttcaag caatggatc 660
cttttatncc tacaactagt ggacaaagng gggcctctgt aatttgggaa agctaggaaa 720
actttttctg ggg                                     733

```

```

<210> 131
<211> 305
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 19
<223> n = A,T,C or G

```

```

<400> 131
aaacacatac gaatanttna actgtgatta tgaagtgaca gccggctaaa tatgtcttgt 60
atthttctctc ttcctttttt tgctaactca tcctttatcc cattcctgct tccatggtaa 120
tgcaggctca aataaattac taggatacaa gattacttca agcctctttt ctgtggaact 180
cataatatga taagcatttg ttacaagatt gcctgtagtt gtttagggga caaattatat 240
tagggaaaga aagtctttct ttagttgggt aaattttcta ttataattgg gtactaaatt 300
tattt                                     305

```

```

<210> 132
<211> 545
<212> DNA
<213> Homo sapiens

```

```

<400> 132
aaacaatgct acactcattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagcggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aacacacacg 360
caattattaa agttcaaaat ctctggagga aaatacaagc aaaaccactc atacactcca 420
agcctgaaac acacatctaa cctccccagg tactggtttg gttttcagag gtccacctag 480
aaaacaaatc taaaacttca ggcaaaacag agcaaaactg gacatttaac aattacacaa 540
ttttt                                     545

```

```

<210> 133
<211> 330
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 36, 68
<223> n = A,T,C or G

```

```

<400> 133
aatatttatt actaatatct tataatgttt tgtggnacca tggcatacct tgggtactat 60

```

```

tgtaacanat agttcaggaa accctactat aagggtttatc aaatggtctc ataaacagtt 120
acttattcaa gcacgccaaa gctcagtcaa aagtattttt cacccttact ctttctcgtg 180
tcattcaaag agaagttttg atgtagtgtg tttatttgta gggagtaatg aacagatcca 240
tttcacagta gactttgtgc tctaggtgat gcagctaatt gccccagttt ggaaaacatg 300
gacttggatg aattgtcttt tgtttgggac 330

```

```

<210> 134
<211> 627
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 99
<223> n = A,T,C or G

```

```

<400> 134
aatattact tcaaatacat tttaaagctc aacaaacttg tgttgaactg aattgcagat 60
cctgaactct atttgaaaat acatcatgaa acagaaaanc ccattccaaa tgaaaatgat 120
agtgcctttg tggggggtggg aatgaggcgg ggagactaaa tcactattaa cagacttctt 180
ttcccaatgc aatttgtcaa aagttcaaaa gttctgaaat gtactaaatc ttaagcaaat 240
taaattcatg atattactaa aactttttta atagtgcatt gacttatcaa gttatagtgg 300
ctgcattaag aacaaattat tgtgtgaaat acctgtataa acacaaaata caattaaata 360
tttctttaca aaaagctgag cattacgcat aatagtggaa tgtctttcat taggtgtatt 420
ttttaaagat taacaaaagt aacatttcct aaaatgtata catgtgccat atttttgcaa 480
acatgcctga gaatgtatctt aaaacatttc tgtagtaaga gtttgcaaga acttcacaaa 540
cctgcaaata aaatgcattc ttttaaaaag gtgaaaatgg catctccaca ctgcaacaat 600
tcaaaaagtg cagcatccct aatctttt 627

```

```

<210> 135
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 45
<223> n = A,T,C or G

```

```

<400> 135
aaaatcaa atattatttg ttaaaaatca gcttggtttc ttacnggaaa ttacaccagt 60
ccgttctatt tactttcaaa ccattattcaa ctctcaact ttcaaacatg taatcaacta 120
atttcaaaaag ggaaaaggta ccctttataa aggagagatc tgtaagaca ccaagaaatc 180
aaaattaata tcacttaata attaatgtga taacacatgc ctcccaatac agtgcagtga 240
gaaacacaaa acatcaattc ccgcgtactc tgcgttg 277

```

```

<210> 136
<211> 486
<212> DNA
<213> Homo sapiens

```

```

<400> 136
aaaacagaat gaattcattg ttacagttac agaagtcaga agcccaaata cagtctgcct 60
gaaccaaaagc cagggtcagc aagggttcctt tccactgttt tgccaacttc tagaggccac 120

```

```

ctgtattcct tggttcatgg cccctctctt catcatcaaa taatcagcat agctttatga 180
cattggcage tctgattttg ctctttttgcc ttctctttat gtagaccctt gtaattacat 240
tgggtacacc cagataaccc caaataatct ccctatctca agattcttaa tgtaattata 300
ttgggaaagt ccctttttgtc atataagata acatagcaat ggattccaag gattagtatg 360
tgagtttctt ttgaggggct ataattaacc ctaccacaat atggaaatgt ctattgtttt 420
tctatgtacc agaaataaga cattaggatg tgaaattaat aacataacac cacttacggc 480
atcacc 486

```

```

<210> 137
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 310
<223> n = A,T,C or G

```

```

<400> 137
ccatcttgca tcaaattgtt ttaaggcagt gactggctat caaccacagt ttctgtctcc 60
ccagttgcaa acacaggatc catgcaacag ttctgagacc atacacttag aaaccacagg 120
ggatgcggat caaatgcaga actcccaaat tataaaacag tcaggctaca ctcaaaacaa 180
aacatagaac atcaacaaca cacatctccc aaaaaagaag tgcaacgcat gcttgtataa 240
accaacaata acaaaaaaac cacaataaaa aatgcagagt ctcccaaaca agttttcaaa 300
tgtattgcan aaagaaaaaa aatgtatata tatataaaat taaaaagtct gaaatactag 360
tgcatagtca attacctaac accaagtttc ttttctttct gtccaagctc tactgccct 420
ctgatactag cagcatgtct acaggctaag accatagcag caaaaaacgt ttttcatttg 480
gcatttacia aattaaatta ctgaataaaa atataatttt ttataaaact atttcttaca 540
gtaataattt tt 552

```

```

<210> 138
<211> 231
<212> DNA
<213> Homo sapiens

```

```

<400> 138
aaattttact agtgttactt aatgtatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aaatgtttga tctctgtttg tcattacttt ttcaaaatat ttttttctgt aaagtataat 120
atataaaact tcttgcttaa attgaatttc tatattagtg gttaattgca gtttattaaa 180
gggatcatta tcagtaattt catagcaact gttctagtgt tttgtgtttt t 231

```

```

<210> 139
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<400> 139
cagttgccaa ccctctgaac cgttttaggcc ggttcacgc tgccctttgaa tctgggccgg 60
tggtgatccg gcaaggggtg aaaccaaaga gcgggggctg tgaggccctt cgcagtcct 120
cgtaagtgcg tgcgatggag tgaactatca cgcacgtgt ttatttcgtc aacacgaaat 180
gtgatttatt tttgcgaatt aacacggcag ttctcggtta cgttttcgga aagcgtggga 240
tatgattctg tctatcctgt acggatatac agtaattacc gggaggggat tccatggcga 300
agaagcaggc ggcaccggca gcacggcagg aaatgagcgg tatggcgcgc ctccggcttc 360
gcgtctcatc gatgattaat caccgcgtcg cccagacgca gcgctgggtt acgattcatc 420

```

gcctggacac ggatggggat cgggagtggg aagaggttct gagcgtgatc gctgataccg 480
 acgagctcga gctgacgctc aatgacgatg gcagtgtgac ggtgaggtgg gagca 535

<210> 140
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 557, 559, 591, 599
 <223> n = A,T,C or G

<400> 140
 acattggtgg cacttgaact gagtgcaaac cacaacattc ttcagattgt ggatgtgtgt 60
 catgacgtag aaaaggatga aaaacttatt cgtctaattg aagagatcat gactgagaag 120
 gagaataaaa ccattgtttt tgttgaaacc aaaagaagat gtgatgagct taccagaaaa 180
 atgaggagag atgggtggcc tgccatgggt atccatgggt acaagagtca acaagagcgt 240
 gactgggttc taaatgaatt caaacatgga aaagctccta ttctgattgc tacagatgtg 300
 gcctccagag ggctaggtta gtacaaactc gcattcatgg cttggtttcc cagaagatct 360
 ccattttaact tttttaaaga aagtttattg ctttctttta cctgcatttt ttctaagttt 420
 tttttcgcac aaagggtgctg tctttgtggc aaggcctagg catgacaatc ggaggactcg 480
 aggggggatgg aggactagtg atccggctgg ctgcttccag tcgattagag aggtgaaaaa 540
 gctgaacgtg tgcccantna atcttcaaaa aggcagaaac atatcacctt ntgccccent 600
 aaacttgttc tttttccgaa ggggaaaaaa aaaatggaaa 640

<210> 141
 <211> 127
 <212> DNA
 <213> Homo sapiens

<400> 141
 aaaaatcaca cactgacaac acagaaatac gaaatgctag gaaaagtcta gcatatgaag 60
 gaaaaacatg tcttatgcac tctaataata ttttttcaat tagtataaag gcaaattgcg 120
 tttttttt 127

<210> 142
 <211> 126
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 44, 46
 <223> n = A,T,C or G

<400> 142
 aaatatcctc tggatgcntt caagtaatac taatcatttc atgngnaaaa gtctttttaat 60
 aaacaaattc agagtaaaat taattgaaat atttataata catttggttac acagttattt 120
 ccaata 126

<210> 143
 <211> 730
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 512, 555, 603, 608, 685, 721

<223> n = A,T,C or G

<400> 143

```

gcaagttctg gagtggtcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60
ccctcctcag aggggtccctg cgagggtgag gggagatcag catggcaggt gtgctgggca 120
cggcagggcc tgggaagggc agatcctttc cccatccctg ccacaaacaa cccaaacctt 180
taaaggagag caatggcctt gtgtcaaaaa caaaaacaaa acaaaaccct gtcctaggag 240
actggggccc taatttctaa tagcaagcct ttatgagtcc ctaacactct actgggctga 300
gtatctcaca cgccagagga taacctgcct tctgctcacc accaccccggt agtagttgtc 360
attgtgtcca tttcacagat gaggcaaagg ctcagaagag tcatgtgtta aaccagcttc 420
tagagcccat gcaggagctg cagggtggga gaatcacctc taggtgctct tcccatggaa 480
tcctcaccct ccttgagtgg tcaactcactc anctttccaa tgggtgtgtg acctttgacc 540
agctttcttt ccttntctgg gcctcagttt cccaccttgg acaaagtaag aggtctcttg 600
ggnttcangg tagttcttcc taacttcttt tccttttcat ttgagcatcc ttcttcattt 660
tttgccacct ctcttgatcat tacangcttt taccttcggc cgcgaaccac gcttaagggc 720
naaattttcca                                     730

```

<210> 144

<211> 485

<212> DNA

<213> Homo sapiens

<400> 144

```

ctgggtcagaa atgattctct tgtgacacca tgcacacaac aggtctgggt ctgtcctccc 60
catatgttac ctgaagatgg agctaccttt cctctgtgtg gcattttgtc gcttatccag 120
tcttctactc gtagggcata ccagcagatc ttggatgtgc tggatgaaaa tcacctgtgt 180
tgcgtgggtg gtctgctgcc gccacttcta atcctcatca tgacaacgtc aggtatggca 240
tttcaaatat agatacaacc attgaaggaa cgtcagatga cctgactgtt gtagatgcag 300
cttcactaag acgacagata atcaaaactaa atagacgtct gcaacttctg gaagaggaga 360
acaaagaacg tgctaaaaga gaaatgggtca tgtattcaat tactgtagct ttctggctgc 420
ttaatagctg gctctgggtt cgccgctaga ggtaacatca gccctcaaaa atattgtctc 480
aacag                                             485

```

<210> 145

<211> 465

<212> DNA

<213> Homo sapiens

<400> 145

```

ccaagacagc tcgtttcttg agagtatgag ggtgtgtttt cttattgtga aaggaactac 60
cttctcttag agggtaggaa gaatgtggtg tgtgtgtgtc tcataaagca accggacatt 120
ataggtgccc aggtcatcta taaaaacgat ccttgggctg tgtaaaaatg aagtggcttt 180
tcagtatcct ctttcacact tgctgcttcg ggagactatg caatgatggg aaggtgattg 240
cccctttatt tcattcagtg ccatgggtccc tgttggtgta gtaatttatt tgtttagttc 300
attttttttt tcttaacagt caaggggaag agtgattcct cacactgctt tcaagctgga 360
ctgagccagt ctcatctctg gaaagaaatg ctgtgtccag aactcagcag ctccatctat 420
tttttccagt cgaaagaaac tgatcttttag gcagttttta cttgg                                     465

```

<210> 146

<211> 351
 <212> DNA
 <213> Homo sapiens

<400> 146
 ccagccgggg taatctgtat gtggcggact tgagctacga cgtgggcggc aagtgcctgt 60
 ttgaccagat cagcggcgtg aagcttatgc caactcatcg tttgataaat ccgaggatca 120
 gttcaagacg tcgcagcggg tgattttggg aacgctcgtt tcggtcagta aattgtgggt 180
 agcgacggag tggttgatcg gcaagaatga tccgtatatatt ggcgggagca gctataccga 240
 gagcctgggg gctgggggga gtaaccagtg ggagaatcag ttatatatga acattgggta 300
 ctacttctga cttaagatct ccagcgtttt aactggcctt atcgcaggca a 351

<210> 147
 <211> 654
 <212> DNA
 <213> Homo sapiens

<400> 147
 acttattttt aattactgaa tatttcttag acgttttggg acagatttta tgtaatcttt 60
 ataagtatga tttctgaaga aaagcaaatg cattagtatg tttgccttaa acttgtagac 120
 taaaccaagt attgtaaaat aaacagcgat aacagtgata gtttttaact ctatgggcat 180
 tgtatcactc tggaaaatgt ggagtagctg taataaatct actcctgtat tatgctttac 240
 agtgcaggtc ttagtttttc tttttctca tttcttttga aatggcatct cgaacaaagt 300
 ccaccaatcc ctttacaaaa gaatgaactg ctctctgtg tgtacttcat agaagggtgga 360
 atcggacaga ggcagggttag tgacagttat tcctgaaata caggagcaga gtacagtctg 420
 ttgtgggttc ccggattccg cgcctagctc agccaattaa gcatgagaca taggccattg 480
 agccacttag tagttatgcg agtggataga ttgggtatgta agagggaaag aggtctgctg 540
 taaagaacaa cacttgtttg tctgtgggga aagaaaagca gaatcttgag atgaaagtgt 600
 gcatacaaat aggatactat cgccagtagg ttatattaca aaacatttat cggg 654

<210> 148
 <211> 539
 <212> DNA
 <213> Homo sapiens

<400> 148
 tgaatatcat gaggggtgatt ttcacctgat tgcaaaactg ccatagtttg aaacactttt 60
 tcaatttacc agacacactc tgtcaagact tcatatactt ccaacttgca agcctgtggt 120
 ttgccttctc caacctaaaa aggaaaagct ttaaacgatg aacttacatt ctattaaacc 180
 atcagacttg agcttatcca tctgttttagc gtgaatgtac aaaccaggta catttccacc 240
 aaacacatag aaaaatcttg tgcatacag ttcagctaag ggtagtagga caatccttac 300
 aatcctcctt ggatttcttt tttaagatgt caaagaagca ggtaagcaac attgttcatt 360
 tgttactggg tgttctagat caaaccttca caagctatat atatagcttc atatgctata 420
 gcttacaaat ggggtaacaa agtaaaagaa aagaacaaat tatactttga cactttatag 480
 tcaaagtata attaaaaaag aaatcctaca gtgggtaatg gagaaataga taatttttc 539

<210> 149
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 149
 tttttgggtca ttctcctcaa ggagccgctg gatagtagtc ttgattgact tccaccttgc 60
 cctcataca gtccggtact aaggccaccg acatcccag gaacctccgg aaccacgacc 120

```

gccaaagcaac tcgacccacg ataggtgggg cctacgctct cgaagttgat tggatgctcc 180
cgectacagg gcgggggtaca gaagggacgt catttgtgac tggacgcgca agagctatac 240
tcagcagctt tcctctgtcc cagcccctag aac 273

```

```

<210> 150
<211> 200
<212> DNA
<213> Homo sapiens

```

```

<400> 150
gttttttacta ccgtatggcc cattttaaag ggatgtgtac gccttacact ataaccctta 60
aaccacctag aaatatgaaa ctcaaactgc cactgacctc cctcaccaag ctccataaaa 120
gtaaaaaatt ataacaaacc ttattaacca aactgaacga acatatgggc gattgattca 180
ttgcccccac aatcctaggg 200

```

```

<210> 151
<211> 515
<212> DNA
<213> Homo sapiens

```

```

<400> 151
ctgtagcgat ctttaagaat attttatata tgaaatctgg atttaggggtt cccatgggtct 60
ggcaccactg ggtacagtag ttctacatgg cagtaattca ttggagttga agcagtgagg 120
aaagagtcaa gtactagtct tttatcctca gtgtccagtg actgtcaaga gaaatgggac 180
tgccttctgc attgggatat gtgggttaaa gagtagtcca atatagaaga gtgagaaagt 240
gmaccctctg aggcatagta atgttttatt kraaaacatc tcacatgtat tgaatactta 300
sataggatgt attctgtatt actgaatttt ccagattatt gaagcaatca cctttctgtg 360
tttaaagttt tagaaagaat gcttttaaaa atgcttaaca taagataagc ctgttttcat 420
ggtgcaaggt cctttctatg aacatgaatc actggactct gagggttgga ctaagatcac 480
atctacatcc cttttaaatg actagtgtgc tcaga 515

```

```

<210> 152
<211> 243
<212> DNA
<213> Homo sapiens

```

```

<400> 152
atttcaacaa catacttgtc gaggtagtta taaatcttct tagggggagg tgggtggtttc 60
tggttgaatg ccaattttac agcttctgct gctgattcag gttctttaat tatgcttttc 120
tttgagtctg cttcagatag cacaacaaaa aaatgatgac acttttcaca cttgacaaaa 180
cggggtggatg atacaaaagg tctctacatg tgtgcacaag tcgccacatt taggacagcg 240
cag 243

```

```

<210> 153
<211> 620
<212> DNA
<213> Homo sapiens

```

```

<400> 153
ttgtcttctc taccttacca tagccagttg ctttcatttt aaaccagagc aagtaacata 60
ttagtgactt gaatcttcat aagttaaagt aaaaaacagc aaaaaaccta gatctttgtc 120
ttttagaaca cagaccattt tcaggaaagc agttagctaa gtgtttaatt catgaatatt 180
gtatactgca tcccctacca caatttacac aatcctgtgg atagtcctac ctcaccctgg 240
tcaacctaca tgatccttaa gctaattggcg gatcacgatg accttgtaga catgcacaca 300

```

```

actatacctt tgtccaacag atcataatat atctgctatc caactgggtt tacctgccta 360
atcctactga tttgggcact gcttgtatag tctctcaagt tcacaggaaa tgttgatttt 420
ctaaggctct cattttttaca gagtatacag gcaaagtgc aggggaaaag gaattagtct 480
aagagtaagg ggatgattat tatattgagg ctaaaaccac aaagtggctc aggctttaaa 540
aaaaaacact gtggataatg acaaaaagca taagtaaaaa tatttttgaga aaaataaagt 600
acaagttttg aacacccccc                                     620

```

<210> 154

<211> 843

<212> DNA

<213> Homo sapiens

<400> 154

```

cattgttagt gacccaagta aatttatagt ttttaagttc agaggaaaaa taaagcctat 60
tttttggtta cagtcttaat aaataataaa atggaataaa gaaacaaaaa aaaaaagaaa 120
aagtttggtat gaaaattcat ccctatttct ttattttgga ctaagtagtc aaatttctac 180
tatattaata ttatgtaagc gacacccatt taaattcact ctctttgata gaaagggtgag 240
ttgattatca cacctgctat tttttcactg ccaaaragac tgcaataacc tccctccatc 300
accctcaaaa aacaaacaga aaccatctga ggcatagcca ttgtttacat attgtgtttg 360
tgtgcaccta tctacaacgt tctttcttct aaggagttta tctgccaata ttttcggctt 420
cagcagcagc gctcttcttg acagactaag agaaggatct acagaaaagt catctgatta 480
aggttttggg tcaaattaaa actctctgga cagaatcctc tttccttcac ttggatttct 540
gcaaacagaa agcagattat tctcctggca caatagcgac tctagaaacg cttatgtttt 600
tcagactttg gcagaacttg ttaagaacag catcatcata atacatttgt acaaactcga 660
atttcagtgg ctcttttgtc ccacatgatg catgatgaaa tttataaagg tctgtttttac 720
ccccacaggg tcattttctt tgtgttccta cagagccaat aggcttcatt taagtccaag 780
ttattatatt aaccatccct ttcactagac tagagaactt ctttttcatg gtccatatcg 840
tga                                     843

```

<210> 155

<211> 674

<212> DNA

<213> Homo sapiens

<400> 155

```

tttcgtgtca gccccaggtt tgctccagct attcacaagc agaatataac acaagaaaaa 60
caattcatat cccttaggga aaaaagagga tcaattcatc actcaatatt taatacagcc 120
aaaatgagct gccaaaacaa gcacacacac aaatactgtg aacagaaaaa tacaagaaaa 180
tgactaagct gggagtcctt acgggggtatg gacattgctt aaagcactta tcagtcccca 240
gaaaaaccaa accaaaaaca ttttttacga tggcatggcc tcatggcccc ctttaaaact 300
gttgatggta acaaagggca ggggggtggg agagaaaaca caatcactgc tccctttttg 360
ctcgccagtg tgactgcacc cctcacggca ccggcatgta cacaactacc acacaaggag 420
gaccaagtcc ctctgctggg ggccctcctaa aaggcaaggc ttgagttttg gctgatgagc 480
aagttctctc cgttaccaat ccctgccaac cagcactacc atggctgaat tgatctaccg 540
ttttcctgag taaactgtaa ctggctacag tttcggtaac atggaaaaga actcagctac 600
tacagccaac tgcaataact caggaacccc ctccatccct ggggctcctc actcctagtg 660
catcttgatt ggat                                     674

```

<210> 156

<211> 671

<212> DNA

<213> Homo sapiens

<400> 156

```

ccttttagtga acaccttttat ctccatgtcc ctcttagagc ccagagagct gcccataggc 60
attttccaga attcctcatg tcacctagtt caatttccat taactcagat cagccattgt 120
gattcaccat ttgtcaggct ctcaggttta acaaaaccta ctatcaccat catccttcaa 180
cagccacagt ctgaattgag ccaacathtt tttttctttg agaaagaagt gggctggggc 240
acaactttta gtctgagggg agctagtagt cggcttgaca attaaagcca tccataacaa 300
cttttcctca aatgtgttga ctctcaggg gctaaactgc tcttagctta gaattatgct 360
ttactagaga tctaccatat aagtgggtta atcactacca tctgttaact agttatatag 420
cttccagaca tgagggagac atcaaacagg gatggaagca accccaagga tatgcaagaa 480
gggcatgatg aaccccttc cctctggcag gagaacaagg ccaaccaagg gacagactgg 540
aaagcactta gatgtttaag gaggagaaag ggaagcttt gaccagtcct tgccttttgc 600
caagttcagc cagttctccg ctgcttgcaa cctctagcgc agtaacatht tgcagaattg 660
cagattttcc c 671

```

<210> 157

<211> 474

<212> DNA

<213> Homo sapiens

<400> 157

```

cgcgttcttt aattctttta gcctagaaag tcctttacac tacttaccta aaggtcccaa 60
agtaaaacac acactagtag taaggctagt gcatttccct tctagcactc aaagaaagct 120
taacattttt gacagtttgc aaataccgcc ttgtatttct gattcagcct tattcaaagt 180
atcataataa aatattttatt aaatstatgt tgatctgcgt gcatttatga tctccagatt 240
aacgttaggc ttctctgttg ggccctaact tggaggtgct tttttggatc cctcctcccg 300
tgattcattg taatttcatt tcccttgatc tggctctgac cagagaagat tctaaatatc 360
tgcccccaaa gccaaaatta tatcttttga aaagtgaat gaagagttga gtcastaatt 420
tatttttagat attactgcct aaaacaattc cccaaaattt atggaagttg gagg 474

```

<210> 158

<211> 584

<212> DNA

<213> Homo sapiens

<400> 158

```

ttggattctg cagttccaca tcattcactc cggcaaagga gagaacttgt aacaaagatg 60
agtgccaaagt ttagtcaatt taccctacct ggaatactat atacaactct gggctctcatg 120
tgtgttaaaa tacatacagt gaagctgagg aagagccact gaagtaaaaa gtattgttta 180
caagttggaa aggatgtaaa aataatctaa agtatactaa gtcaggaata aaaggcagag 240
ttaataaaaat tgtggctggt actgatagac gaaacagata tatttttctaa atcctggaat 300
aattattaaa aaattttaca tgtatcaatg gattccagac tccatatttt aagtttcaca 360
actactgtca tttaaaacta taccttattg aacgtctccc actctcaata aattacccca 420
aatcactctt ctccaaaacg taaatttgga acacactgac ttacaaattt tgggcttaat 480
ttataggatg ttgtggccct caaaaatatc attgtgggct aaacaaaata aattcttgaa 540
acaattctaa aaatcaatca ttgtccaaaa tgaacttttt ctaa 584

```

<210> 159

<211> 671

<212> DNA

<213> Homo sapiens

<400> 159

```

cctaatttta ttacttttct tgccactgct attattgata gaaatacaat taaataatta 60
agatgaacca atccattgga agattactaa aattgtatct tcccaatgcc tcctacagta 120
agatttcttt ataattataa cccttgagga caatttgaac tttatttaaa tgttctgctc 180

```

```

aaatctaaat ttccttctcc taggctgaag cctgatctaa ataaggaagt agttgggata 240
tatccacagg ctgtcgaaca tggagctgca tctgagagac aggtggcagc aacccaaaagc 300
aaagcaggga ctgagaacag gcaggttcca agagcaaaat ggaacttgaa agccaagtat 360
ggttcactgt aaaggagaaa atatagaaat acggaactag aacacctggc ctgggatgtg 420
gtaagcacc cccaaaatatag aaaactgtat gaattcttgt gaagcagtaa actatgatag 480
taatcatgtg acacatatga taacaaactc aaaacaggga aaagaggggc tttattcaat 540
gctggagata agtgaaaaaa aaagtgaagt gtctcaagga cagaagttat catctcaaaa 600
aggcatatca gctagatctc gcggaaacca tatgattatc ataattctag actctgttcg 660
gtattacaaa g                                     671

```

<210> 160

<211> 315

<212> DNA

<213> Homo sapiens

<400> 160

```

ccagagaggg agggctctgc ttcaccacag ggcaccagaa gaggactggc gcgcgggaag 60
accaggtaat cataatgcta ttaaaaatag cagtaatcat actgttttat acattgtata 120
atgtcataag gattttaact ttcattgtaac ataattgctg taaaagtttc cccagtttgt 180
tttgtgctat ttaccctggc gttaaaatgt gtaagaattt acatttttagg tatgttaggt 240
ttattccttt ttatatgggt tctgtttgaa attttgattt tagaagacat tcattctcaa 300
ggtcataaaa cacac                                     315

```

<210> 161

<211> 607

<212> DNA

<213> Homo sapiens

<400> 161

```

tttytggtgc accttgata attgcttaac ttttaaaatt tacgttccct catttccaaa 60
aagggttat aactcactgt tattttgata attgagataa atgtacgtac aagtgttttg 120
aaactgtaaa gtgcattata aacagaggga tttaccatag aggttctacc ttgatgtatc 180
aagagaagcc ttttctggaa tctgggtgcag ccttggtgaga tgctgttagg taaggggact 240
ccttggtaga atttcttaca tttgtgtaaa aagttctggc tcctgagtaa ttccaaagaa 300
gatgctatga ggagttcact gtgcctttga tttgatccca atgggtcaga atatgttttc 360
tcattcagta ggctactaca ggatttgaag tagaaaaaac aggggtccagt gaccttcacg 420
ggatcctaga tgttcatgaa tttcaatcat ttgagattgt ggggtgtggc ccaatgctgc 480
tctcaaaaag atgttgcctt tcttcasaga gcattaataa ctaaaaaatc ccctgggtccc 540
aaattttattg tgtgtmtctg aaggccttta ctgaagaaat gaaawgcaca ctcatggaac 600
aaactaa                                     607

```

<210> 162

<211> 443

<212> DNA

<213> Homo sapiens

<400> 162

```

tgagttttga aaaagtgaat aatcaaaaagg aaaataattc cttgttggtc ataaattaag 60
catcactaaa gtctcttgaa aggcatctct gtattgggca agatttaaaa tactaaagcc 120
ttaggtccta ttcataattt aagtagcatg tttgtaacct gttactatct ggagagagaa 180
gcagttgcct gccacaattg aagactacct ttcaaatagc aaaagagaga gagaaggctg 240
atatttcggg ctttttaata aagatttgtg tggttctgct tttactgtaa ctgtcacttt 300
cccagtgaaa atgatttcat atacatttga gggctcttaca sgtatgggta aagttctata 360
aattgcaaca aatgatgacc caatttcatt ttatcctttt tgtattgtga aactggaaac 420

```

tttatgacat tgtaaattat cag

443

<210> 163

<211> 686

<212> DNA

<213> Homo sapiens

<400> 163

caggcaaatt	atagtcaa	acatcacccc	cctcaggcat	ctgtggcaag	gcatccctct	60
agagaacaac	taattgatta	cttgatgctg	aaagtggccc	accagcctcc	atatacacag	120
ccccattggt	ctcctagaca	aggccatgaa	ctggcaaaac	aagagattcg	agtgaggggt	180
gaaaaggatc	ccagaacttg	gatttagcat	atcagggtgt	gtcgggggta	gaggaaaccc	240
attcagacct	gatgatgatg	taagttagct	ttgtatatct	ttgaaacacc	tataaagttt	300
tatttaccga	ttgaataact	aaatgtaagt	gaaaatctaa	tagatgttta	tgtaaatact	360
ggtagacatc	acctggattc	cccactctat	tgcttacctt	tttgttttgt	aatttgatca	420
gttcaagtta	aaacaattta	acaaaaaact	atgaatgttt	atgatataat	gaaatgattg	480
ttaactttct	tattgctttt	tcacacacct	ataaaagtaa	ttttattact	ccaagagaaa	540
atcactaaag	gcagaattac	tagaggtaaa	aataactagg	gttggtacag	tattactcag	600
gagaagtcaa	ggggagaaaa	cttgteccaa	tgattcaaaa	taattttggc	atgggggggg	660
ggagggaaaa	aaatttggct	tccttt				686

<210> 164

<211> 706

<212> DNA

<213> Homo sapiens

<400> 164

ttttttttgt	ttcatttgct	gcttaaaata	aaaattataa	attagattta	aatggagcac	60
taattataaa	acagattgca	agtaccacca	tttgaaaaaa	aaaaaaaaaa	tcagtggatt	120
tccataacac	agaaaatgca	tgacatgca	tctacagtag	agttaaaaat	ttcctgtgac	180
taaaaaatta	aaaactggaa	tcaccagtag	caaattgtata	gtcaatggct	atgacaagaa	240
cagatcctgc	cgagctcata	aatgcaatta	ttggcttttt	tgctttataa	aaaagacatt	300
acatatttta	ttgcattatt	ctcctaataa	aaaacatact	accacgtagc	tctccccatc	360
cccattcttt	gcttccagat	ttttatagaa	aataactgtt	ttagtctggc	cttggaaagt	420
gaacccacca	gcaccacctt	cacctactca	ctcttcaatt	caatatgcac	atagcaaaaag	480
ccaacacttc	aaatctcttg	cccacatcaa	aaaaagtagt	ttcaggagaa	aaacattaat	540
accagttgaa	taaaaataag	ggcataaaaag	ctatgagaga	gatagctctg	ccatctgtct	600
ctgggctaaa	aatcaaggct	aactattgcc	tttggcacca	caagggtcaa	ggtccatggg	660
tttattagaa	aagtccccac	aaaaaaatta	aacccccctc	acccca		706

<210> 165

<211> 427

<212> DNA

<213> Homo sapiens

<400> 165

tyywgaggcaa	ttaggcagga	gaaggaaata	aagggtattc	aattaggaaa	agagggaagtc	60
aaattgtccc	tgtttgacga	cgacatgatt	gtatatctag	aaaaccccat	tgtctcagcc	120
caaaatctcc	ttaagctgat	aagcaacttc	agcaamgtct	caggatacaa	aatcaatgta	180
caaaaatcac	aagcattctt	atacaccaat	aacagacaaa	cagagagcca	aatcatgag	240
tgaactccca	ttcacaactg	cttcaaagag	aataaaaatac	ctaggaatcc	aacttacaag	300
ggatgtgaag	gacctcttca	aggagaacta	caaaccactg	ctcaaggaaa	taaaagagga	360
tacaaacaaa	tggaagaaca	ttccatgctc	atgggtagga	agaatcaata	tggtgaaaat	420
ggaaaaa						427

<210> 166
 <211> 124
 <212> DNA
 <213> Homo sapiens

<400> 166
 accatgtttt cgttgtgtgt gagcagggaa gggaaactttc ctgccttatt taaacctggg 60
 ccgaggattc gtggaatctg cttgatcaga gactctgagg ccaaaaacgc atcatacttc 120
 ttgg 124

<210> 167
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 167
 tctgcatagc aaatatgatt taagaattta acatcattat ttgatcacia gcgtaaatat 60
 gtcaccataa ataaatgtaa attcattgta caaaaattcc caacaactct taatacaaat 120
 atggtacatt tgacagtttc tgaaacagat tattttttaa acttttttaa acctaagctt 180
 tatttttttc ctgggttatta gacacacaca aaaaaataa aaagaggctg gg 232

<210> 168
 <211> 677
 <212> DNA
 <213> Homo sapiens

<400> 168
 tttcacattt aaccaacatg caaaaattct cagactaaac actgagaaat tcttcataca 60
 atgcatttgc caccttattg cattttttaa atctttattc tatagtgaat tggatttccc 120
 aatctgccta agcaaaggca tgcccttcta acaagatttg cttagagcag aggtgataga 180
 aggaagaatc cgaagaccct ctggcatggc aatctgggag cagcacattg ttgatggagt 240
 ccaagtgagc acatttcaca caattcattt agtgacaagt gggcttgctc ccttttcac 300
 caggaaaaaa actactcaca gaccactgcc cagaatctgg aataagaacc ctcatTTTTaa 360
 ggtattcttc ccaacaaata aatatctaaa tattgaaagg gggcatatca gaaaacttaa 420
 aagacacaat aacaaaacc aaaaccctct tcaaaaacaag taagcaatgt ctgtatttag 480
 ttcactctaa aacattctta gcttttcttg cagtttggtc ctaaaagatt tgattgggca 540
 caagaggaac gaaattatta ataaaataaa agcttatttt tgtttttgct gtggataatc 600
 ggtacaaaac gtttccagat ctgagactta aatggatctt ttaagggtgaa aaggagaatg 660
 ccaggttcta ctgaaat 677

<210> 169
 <211> 635
 <212> DNA
 <213> Homo sapiens

<400> 169
 ttaagaagac tgggcattta tactctctct tgctagtcag cctggagcaa gcttggagca 60
 gacgcacatt tttgtactgg cacatatctt tagacgacca attatagttt atggagtaaa 120
 atattacaag agtttccggg gagaaacttt aggatatact cggtttcaag gtgtttatct 180
 gcctttgttg tgggaacaga gtttttgttg gaaaagtccg attgctcttg gttatacgag 240
 gggccacttc tctgcttttg ttgccatgga aatgatggc tatggcaacc gaggtgctgg 300
 tgctaattct aataccgatg atgatgtcac catcacattt ttgcctcttg ttgacagtga 360
 aaggaagcta ctccatgtgc acttcctttc tgctcaggag ctaggtaatg aggaacagca 420

```

agaaaaactg ctcagggagt ggctggactg ctgtgtgacg gaggggggag ttctgggtgc 480
catgcagaaa gagttctcgg cgggcgaaat caccctctgg tcactcacat ggtacaaaaa 540
tggctttgac ccgctaccga cagatccggc cgggtacatc cctgtctgat ggagaggaag 600
atgaggatga tgaagatgaa tgaaaaaaa aaaaa 635

```

```

<210> 170
<211> 533
<212> DNA
<213> Homo sapiens

```

```

<400> 170
ctgtgatctc acaagtgtga aaaatcttat gaatgtaaaa tgtgtggaga ttcttctttg 60
tttttagctt ccactttggg aacatgtcaa agcacacatt gagaagtccc atgagtgaaa 120
gagatgttgg aaagcccttg aacttggtcg ttaggaaaca tccacactga agaggaacct 180
gactgtatgg aaggtcaaaa aggctgtatt aatttacatg caaaaagtca cactagagga 240
atgccatata agaatgcttt tggtaaata acatgtttta aagaggttat atatcattaa 300
taaaaatata tagctgggtc gaagaccctg agttatctca attgttcacg gttacagatg 360
gaactcttta ttattgagga gttccactct ttccccctatt tgtcactact acacttccct 420
agtctttaaa acaatttttag gctgggtgca gtggctcatt cctgtaatcc cagcactttg 480
aaaggccgaa gcgagtggat catttgaggt caggagttcg agaccagcct gga 533

```

```

<210> 171
<211> 568
<212> DNA
<213> Homo sapiens

```

```

<400> 171
cccttgscas actttccctt aagtattgca ctacaagtct aagacacttt tcactcaaag 60
ttccttcctt ccttacctct cttttaactt ggagtcagac tttcatcagt ctgacaactt 120
ctccctgtct ccttcctttt ccccccttca caagcatttc acctaacaaa tttcttatgt 180
gcttaatccc ctcttagaag cagatgccaa gatgggatta agcacataag aggtcctgga 240
ctaatacaat gacaaaggct ccccttgaag catcacacta aaaggaaaaa aaaaaaaaaa 300
acctagccat ttacatttaa ctatttctaa aatatagtat ttgcttccct atttgctaaa 360
acaaaatata ctaaacaatga ctattccaaa aatctgtagg gtactaagaa tatgaagaga 420
ttcactctac ttcaggggat ggagttgtag tagaaaaggc tttgtggagg gagggtggtg 480
tttgaaatgt actttaaaag ccatcctcaa agcctcgagg gctataacct gcctgggtgat 540
tatccaagga cagtccattc aaacaggg 568

```

```

<210> 172
<211> 167
<212> DNA
<213> Homo sapiens

```

```

<400> 172
ccatttacag gaatcagcca cttcagttca gacagcttta ttaaaccgcc tggagcgaat 60
tttcgaagca tgttttcctt ccatacttgt ccctgatgct gaagaggaag ttacttccct 120
gaggcacttg ctggaaacaa gcactttgcc aataaaaacg agagagg 167

```

```

<210> 173
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<400> 173

```

```

cctcccaaag tgctgggatt acaggcatga mccmccmcgc cctgatgata gacacgtttt 60
taacttctaa aaatatatga tcatgattgt gtctgtggag acttgcacat atactaaatt 120
ttaamcaatt agagatatatt gttcattacc acattttggg agtcattatt tcctctatga 180
agagagaaag gaatttgata caagttcaca ggggcttcca gtagattgag acttttatatt 240
ctagctgagc tgctgatgta tgaatttttt ttgktattat gactttcata tgtattaaaa 300
ataaaatgaa aaaacaaggg attaggtgag gaacctatac gtctctaata tgcaaaatac 360
cacagaaata atgactgktg ggaaaattag g                                     391

```

<210> 174

<211> 474

<212> DNA

<213> Homo sapiens

<400> 174

```

gaactcagag agaggattgt cacccttggc atctgagctg acactataag gacaatgagg 60
agtctccttg gggatagatg gggagatgga aggacgatgc ctgtcctacg gggctcttga 120
agggttaggga tacacactgt gagctgccac aggctcaaca gtacggatag ggggtgctgg 180
aaccagccag ggctctgatc accaagctat gtgccccatg cagaggaagg ggtagtggca 240
cactgaacca cccagccaca aggctatctc cccatacagg gcacctttaa aaaaattatc 300
cttacagggg aagacgggga ggaaggatga actgtgtgcg gtgatgttgc agtgagtgtg 360
agtttgtgtc cgtecgcttg tatgagggcc taccttttac taactagccc ccaactttca 420
ttatctcccc tttttctgtc tacccttctg ccttttttaa gtggcttgca atcc          474

```

<210> 175

<211> 655

<212> DNA

<213> Homo sapiens

<400> 175

```

ccttgccagg gtggggatgt gtgggcttgt tcaactgttac agcccatgta tacctgaagg 60
gcaacatgta cccacaaatg ttccaggagg taaataaaaa atacaattca gcctcttcta 120
aaccatcctt gttgatattc ctgctacttc cgaaagttaa ttcgttatatt ggactccata 180
atttttccta ttaattcacc ctatgtccaa ctccaacagt gaaaaaaatt tatttaattc 240
ttgcaataag cctataggca ggcagcatta tcctcagtct gcagataagc taaggctcag 300
agaagcttgt atactgtcac ttaggttagta attgcaagag ctggcattca gaccagact 360
gtgggactcc tcaactccatt ctctttcccc ccactaggct gctccttaaa atacaatgga 420
tgcttgatga acgcttggtg gaatcctggg tggacacagt tccttttcgg ccaaaagcac 480
cttgacgact tgtgaagaat taatctggaa aacttaacct atttataaaa acgtgttatt 540
aagggcaggt tattcccacc ccctttacca aagaaacccg ccctgacctt tttttactgg 600
gggttggtct tgggcatttt caacaagggg ggaacagttt aaaaattccc ccctt          655

```

<210> 176

<211> 660

<212> DNA

<213> Homo sapiens

<400> 176

```

cctgggtcaaa gtgggcatta ccattcaagc attactagac atcaccgtaa cgaaggctct 60
gttcacatga aactaccctt tctccattgg gggctcagac tctgctctca tccaggatcc 120
tgaactctgc tccaggcacc tgttcaacct tctctcccac ccactgcctg tcacttcaact 180
gactccagtt acattgaaac aattttcagt ctaaggaggg attttctacc tttcagagct 240
gacctccgac tttaagactt gacaggtatt tatcttgaaa ccagagaggg agctggagga 300
aaaaaaaaact gagcaagcac atcaatgcct ttccaccct tcttcatcct ttccacactc 360
accgactgcc attaccaaaa cgccaagcac aaccggtttg gaacaagacg cattccgttt 420

```

```

taattaaaac caactcatta tgtatTTTTag tggggggggaa gggggggcaca atcaggggttt 480
tcaccaccaa atTTTccaca cggTTTTctga acaccattgc cTTTTaaaaa actatTTTTtc 540
cacctccaaa atatTTtatTT aaatTTTatt tattacggag gtgggtattct tcctTTTggga 600
gccaaattgg gaaatTTtagg gaacctTTTTt tattaccggg tTTTTTgggc gggtaaacc 660

```

```

<210> 177
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 177
ctTTTTctct tcctctgtgg aatgggtgaaa gagagatgcc gtgkTTTTgaa gagtaagatg 60
atgaaatgaw tTTTtaattc aagaamcatt cagaamcata ggaattaaaa cttagagaaa 120
tgatctaatt tccctgttca cacaacttt actctTTaat ctgatgattg gatatTTtat 180
tttagtgaaa catcatcttg ttagctaact ttaaaaaatg gatgtagaat gattaaagg 240
tggtatgatt tTTTTTTaat gtatcagytt gaacctagaa tattgaatta aaatgctgkc 300
tcagtatTTTt aaaagcaaaa aaggggaatgg aggaaaattg catcttagac cattTTTtata 360
tgcagtgtac aatttgctgg gctagaaatg agataaagat tatttatTTTt tgktcatgyc 420
ttgkactTTTt ctattaaaat cattTTTtacga aaaaaaaaaa 459

```

```

<210> 178
<211> 720
<212> DNA
<213> Homo sapiens

```

```

<400> 178
ctgcaagctc ccactccttc catttatctt aacgcccagg ctgacttcta agctgctTTTt 60
cactTTTccta cctccactgc atTTTcgccc ctgataatTTt ttgtaagctt acctaagcct 120
cccttctTTTt gagatcccct tcttaaaaagg gtccattcta ttaaccctac cccatatcca 180
gttactTTTta ctacctgctg atctatcgtt accttgtcca attcatggga attacagggt 240
gcactgggac aagagtaaaa tgatccaaca aacataatgt tgcattTtaa aaaataagct 300
aaaagatact gatgactTTTt tataactaca acatattcgt ttgtgaataa gaacatatat 360
agtaaaaaaga tgaaaatgtg aacagggttga ctattTccta aatttatggc agaaggttgt 420
tctggagagg atgggaagaa aaaatgaagg ctggcagtga tgggtgggga aatgcaacct 480
ccaaaattat ctatctatat atTTTttatta aaaacaccca cagtaattat ggcaaagtgt 540
aatggTTTtgt ttgttctaag gTTTtgata catttaagat ctcttgctTTt ctgggtacca 600
tttctTTTtct tttctTTTtct tTTTTTTtca aattaattcc aaaagactta tatctgctac 660
atgaagaacg aagcaagttc agctctcttg gctgaaatgt tcaaagtctt gagggcaagg 720

```

```

<210> 179
<211> 427
<212> DNA
<213> Homo sapiens

```

```

<400> 179
ctgtgaatct gtctggTTct gaacttatTTt tttagttatt ggcaatctTTt gtattactat 60
ttcaatctct tcctggTTta atctaggagg gttgtatatt tccaggaatt tatccatctc 120
ttgtaagTTTt tctagTTTat gcacataaac gtgttcatag tagccttgaa taatctTTTtg 180
tatttctgtg atatcagttg taatatctcc catttcatTTt ctaattgagc ttatttgaaa 240
cttctctctt cttggTTaat cttgctaatt gtctatcagt tttatTTtat ttttcaaaga 300
accagctTTTt tgTTTcatTTt atctTTTtgta ttgTTTttgt ttgtctcaat ttcatttagt 360
tctgctctga tcttcgTTat tctTTTtctt ctctggggtt tgggTTTtaga ttgTTctTgg 420

```

tttctct

427

<210> 180

<211> 728

<212> DNA

<213> Homo sapiens

<400> 180

```

caaacacaaa agtcactgtg tgtgtgatgc ttctccaatt ccactcatcc tggctgccat 60
tcatgcacta gtgcatgtat gcattttttac atttttttaa ttacaaaaat caacctatta 120
taactgctta gatatatatg aagtaaaaaat gaaagttctc cttttacatg acccatcccc 180
catcatttcc ctcttttatct tatactgtca gcattcccag cttgtagcac agtgtctggc 240
aatagtaaat cctcaaaaaa tgatcaatga ataatttaat aatgattaat aaataaatta 300
atgatgatgg tgaagataaa ttttagcatt tattgaacgc taactacaaa ccagggagtg 360
tggtaaatat ttataaaaaa tcaatgaatg agctaaaatg ccattctatt atttttttgg 420
atacggttta atatttttact cataaatatg cttaaagaat attataatta tatgacttag 480
aatggtaaaa caatatgtac agcagtatcc tatttttttag aataaaaaata taaatatgtg 540
ctcacatatg tggttggggc atgcctagaa acccgattag aacgggattt tttcttacca 600
ccattttttt tacctgggaa aaatatggga aaattttatt tcccttcttt ttggttctaa 660
aatttatata caggagccta tttggctttg gataaatcat tttaaaaaag gtggtttaaa 720
aaaaaaaaa                                     728

```

<210> 181

<211> 546

<212> DNA

<213> Homo sapiens

<400> 181

```

acaatccttt ggaagacact actgggcttt ggggtgctgct ttttaataat tgagttattt 60
tgagcttgcc aagtaggata tattgcctgg actaaaattt atttcctaatt cttctgatga 120
ccaagaaagg aaaaattaag tttgcagatg ggagatgaaa tatagccagc gaatatgcat 180
actggttctg aatgaaagga attaaacttt cagtcaagaa acagtctgca tgccgtaaat 240
tgaatttttc ctgcaactgg aatgattggg taattctttt tgaacactgg cctttctccc 300
caagaacact aatgaattgc taatattttt taaagaaaac tggtttttta attaggtaag 360
ctccacttcc tcttattttt taatccctaa agaaaactgt taaaaggga tggatctatc 420
acgccttttc ttttaaaacc acctttttta aaaaggattt ttccaacccc caatttgctc 480
ttatttttaa attttgaacg ccaaaagaag ggaaataaaa atttttccct taattttacc 540
ccctta                                     546

```

<210> 182

<211> 333

<212> DNA

<213> Homo sapiens

<400> 182

```

ggccactctg actgggtctg ctaattcaca tgctctttgt gacatacggc tctaagaggc 60
agaggctgga agagaagtat gtgggttggt ggatcaagat acccaagttt cagtcttgac 120
actgctatta cttagtcagg tgaccactgt aacttcatct tgattgagcc tcagatgtct 180
cacctgcaaa atggagtttg aaatttgcta tggttgggtg tcacacggat taaatgaaat 240
aatgcctggt aagcgcttat ccagcactta ataagatggc cactgcatca taatgctttg 300
ggcacaagta acacaacatc caacccaaag ggg                                     333

```

<210> 183

<211> 393

<212> DNA
<213> Homo sapiens

<400> 183

```
ctgaatttct tgggctttat gtggcagtgt ggtaaaaata tatgatcaga tttcactggt 60
aagaaaattc tttcagcaat acatgtagag tcaagtttct tgcattggata actgaacatg 120
tgggttatga gatttttaaaa aatgtctcgt gacaaacttt acggaaatgc aacaatctgg 180
acatctagtt ttgtctgaga gtggcgtgga tatgaagaac tgtgctggtg gtgctgatgc 240
cacactaagt tttggcagtc acactcttgg ttcttcatat ttgaggagat gggatgggtga 300
ggaggcctgt tggcctttatt ttattacgtg ccaccatcta gaatacagat tcttggatat 360
ttcatcttca caaagggtgaa gctgcaaact cag 393
```

<210> 184
<211> 700
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 74, 503, 629, 656
<223> n = A,T,C or G

<400> 184

```
ccaggscawt gaggaagagr gaaagaatwt arrggstwt caaataggaa aaraggaagt 60
ccaaattggt cccntgttkg ccagataacc atgattgkkg atttagaaam ccccatgwtg 120
tcagcccaaa atctccttaa gctgattaag camcttcagt aaaktctcag gataaaaaat 180
caatgtgcaa aawtcacaag crtctctatm cgamcaatam cagmcaaaca gagccaawtc 240
atgagtgrac tcttattcac aattgctagt aagagaagaa aatmcctagg aatacaactt 300
mcaagggatg tgaaggwtct cttcaaagaa gaactacaar ccrctgctca aggaaataag 360
agaggmcmca agtaaatggg aaaagcattc tatgctcatg gataggaaga atcaatcccg 420
tgaaaatggk gatactgcc ctaaataattt atagattcaa tgctatcccc atcaagctac 480
cattgacttt cttcmcgga ttnggaaaaa tctactttac acttyatagg graccaaaaa 540
agaagccwt gtagccaaga caatcctagg caaaaaagac caamcctgga ggcattcacag 600
tmcytgactt cmaactatwc tacciaaggny tmcrgkgmcc aaaacagcac ggkacntggg 660
mccaaaccrg acwtwtwgac cmmcagacac agaacmgagg 700
```

<210> 185
<211> 192
<212> DNA
<213> Homo sapiens

<400> 185

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ccagyccttc ttttaagtaa gcgctttttc aagctcattg tagctacaaa gtcaataaat 60
tgggtcttgt tatttttacc tgaaaagggt gttaaagggt aaaatgacaa actcaaattc 120
aaagggtattg gaggatttgg tgtttatgat ttctcagaac aacaatctag agaccaccag 180
ggtgggtttc ag 192
```

<210> 186
<211> 688
<212> DNA
<213> Homo sapiens

<400> 186

```
gtgctggaat tcgcccttag cgtgggtcgcg gccgagggtg gatattttct ctggatagat 60
```

```

ttcagatagg tagttccctc aaataagatt atatggggttt gcatttttcaa ggcagagttg 120
tatacttcct gctcttttatt taaataaaaa aacttgaaaa tctgttctgc ccagtattgt 180
aagcgctcag gtacaaatat gaatgaaaca atctctgcct aagtaacaca agtataggga 240
caagattctc agtaaaattc tcacgtgaaa tttgttaact actagacact atcaggagat 300
caataattat gtaattaaaa aaaataatta cctgccaaac tgggttcttc tttggcactt 360
ctgcttggtt ttaagacaat tctcacatag aagcttatta ttccccatta gtcattccat 420
agatgtaaaa ctggtagaaa caggacttga attgaacatt ctttacaagt aagttatata 480
gcttctgaaa aaagggcttg aaaaagcatt tttggggact ataagaacct tcaaagtctt 540
tcccctctta acaaacctta aaattatatt gaaaataatt taagggggct gattttctct 600
tgtcaaaatc ttgaacccca cttaccaggt gggttggtcaa accaaagttc aaaaaaaagc 660
ttctggcctt tcctttatcc cacttgca 688

```

```

<210> 187
<211> 779
<212> DNA
<213> Homo sapiens

```

```

<400> 187
gcaaaaaaca gatacatTTTt cagtgtTTtaa aaatgaacaa gtatggaaag gcttatacag 60
taactgaaaa gtctcctTTtg ggaagccaag gtgggaggat tgcttgaggt caggagttca 120
agaccagccc aagcaacatg gcgagacccc atctctacaa aaaattaaaa aatcagccag 180
gcatggcgga catacttgta gtagtaacta catgggagggc tgaggcgggg ggatcacttg 240
agtccgagag tttgaggctg cagtgagccg caacgcgccc tgtactccag cctgggcaac 300
agagcaagat gctgctctaa aagaaatTTt ctttttaaaga aaaaagtctc cctcatagcc 360
tgttctacaa aagtcctatt tcttcccaca aaaagcctct ggtacctggt gttagttctt 420
ggggtggaag attactTTtta aaaatagaac tattttTTtaa gtatatcttt tagggaactt 480
tagttcccga agcttttagga aatgggatct tgaaaacaaa agggatttca atacctatga 540
caatgcttaa agaattattg gggcattttat ttttcaatgg agggtcacac aatctttgga 600
aacccttggc caattaccag aagccacttt aatttttgac cgaaaatgtt tttaaaaatt 660
ggcttttgga aaaactgtct ctttccccaa aaatgaaaac cttgaaaaaa aggggaattt 720
ttaagggtgc cccctcatta aattttaacc cctctgaaag aaaaccctct tgtgacagg 779

```

```

<210> 188
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 307
<223> n = A,T,C or G

```

```

<400> 188
ggcgamgtct ggycaccatc atgccctTTta atcaactcac acctgtTTtaa agagtgtttc 60
tgatttgacc ttcacccctt agtttactgg cgTTtaaaaa agtctcagca attttcatta 120
tttctcgtgg gtctcattat caaacctTTta cttatttcgg catatttcct ctgggcttct 180
tctagtTTtct gccttacaag caatgctggt ctgtaaattt attgaaacct ctggaacatt 240
tcacctttag agatggagga tggaaggatt ggyaccagaa gagggctaag atacgttytc 300
tgtcttngag ctgaaagcac agyctactct ccttcgTTTTt gycgatgaga aaagttgagg 360
ccagaaggga ggtgacatgt ttagagtcac ccag 394

```

```

<210> 189
<211> 681
<212> DNA

```


<213> Homo sapiens

<400> 189

```

aagttctgac tttgggtctat aaaacagggg tattgggtgt ggctgcactc aatatctaaa 60
aagttattag gaagtgcctc gttattgtca tttaaagatat ctaaatatgg tagaccaag 120
gttggtgaga aacacatatt atggactgag ttctgtttct tctgctgtgg cgcacctaa 180
ctcaagcctt ccttctctcc ctccccttct ggccggcatg gtatctgagc tcacagacag 240
acaaggcatg ttagaatcat cagatcatga gcaccgtgct gggatttagc cctctccaaa 300
gtcaattctt acagtccata ctttgcttaa atcctcagtt gttgaggtct gctctgctgt 360
cagtaatccc agctataaat ttcccccaaa tgtggggcct agataaagta gaagggtgat 420
ggactcagct tattttcatg ggatgacagg aactggaaag agaaagggca ttgaaaataa 480
aaagttattc cagaatagca ttaacctctt tactgttcaa gaattaagaa agcctactta 540
gaaatgaggg ccttgagaat gatacccaaa tattgggtct tctacaaaaa aatggccttt 600
ccaaatatct gctttcctgt tcccgaattg gctttttaag tagaattaag ttacctaaaa 660
ctttacctga aggggtggttt t                                     681

```

<210> 190

<211> 839

<212> DNA

<213> Homo sapiens

<400> 190

```

caaatacatg atttccattg gcatagactc ttctatagtc tctcaggcac accttatgac 60
taataagaac actgtcttct agatataagc caagtttttag gagttatctt tgtagtttct 120
gtgttgagac tatgggtctt ccctgtgcaa agacttgatt agcaaatact atttgaaacg 180
atcccaaatt catagtgcag ttgaccaccc ttctgatcaa ggggatctct gtatatccca 240
tgaaagcttc ataggtctca ccctagatta agtgcttcac ttctcaagac agtgaacaga 300
tggaagactt ttgtagttat cattatacaa ctgtgccctg tgtgttttat tataacaacca 360
gagaactgag gcactggctt tacctgtcag ctacgccagg ggtgtgacgt catctttctg 420
acttgatcac acatgccaca ttgcttaata tttcaagctt agactgaaat aatcctgtgg 480
taaaaaatth ttggggggct ggggaggtaa agaacaaggg ggggaacttt ggaatattht 540
tattcattaa tcatatttcc cgaattgtat tttatthttga aatgaccata agggacttht 600
atacgtattg tggttaaatt aaatggaccc aaatggaggt aagtaaacct aatgggacaa 660
atgaataaaa ggthttatgac tgggagcatt taccatgaa cctccttaga agctatthta 720
cctttcttht ggaaagccct gaaggctggg aactthaaatt ttaaagacag tacctattht 780
cagaatcgct tccaaatggc catgtthttaa agggccaaca tthtgggatg gccctgccc 839

```

<210> 191

<211> 697

<212> DNA

<213> Homo sapiens

<400> 191

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ccatcctgaa tactgatttt ctaatggaac tctattcaat ggcgattgta aaaccctgag 60
gctccgttac tattatggag catactttca tctcattctc ggctattggg caatatgtat 120
ctcataagat tttatcacat ttcacagatg aactgttaat tgattccatg ggtacgatta 180
ggcgagatcc aagctggagc tgcagctctg agtcccataa attctttgtg cttctgtaaa 240
gaataaatct gtttttaatg caaattaaaa ctactggcag ggaattttgg ctcccagtta 300
ttaaaagact ggaaatgtgt aagtggagaa aggcaataac tgcagtaatc tcttaccgga 360
ctctattata attccaaaca tacataatgg tgagaaaaac cgggaaggga agaattgtggc 420
aatgtccact ctttgcccca aacataaccc ttaattttca tggcggggccc aaacactggt 480
aaaaacaaa atggtaccct ctatagcatg caactthtat ttcactccaa acgaaaaatt 540
atthtgacta tggcttgga aatccattag tagaagaagt tttataacct ataggaaccc 600
ggccatttca tttctaccaa atcacaggaa tthtagaatg ggcaagggaat ttacagggaag 660

```

acttgcccaa ttatcttttt ttgggggact aaaccaa

697

<210> 192

<211> 687

<212> DNA

<213> Homo sapiens

<400> 192

ctggttacta	tagctttgta	gtataattta	aagtcaggta	atgtgattct	tccagttttg	60
ttatcttctgc	ttaggatagc	tttggtctatt	ctggatcggt	tgtggttcca	tataaatttt	120
aggatagttt	tttgctatct	ctgtgaagag	tgtcattggt	actttgatag	ggattgcatt	180
gaatctgaag	attgcttttg	gtagtatgaa	cattttaaca	atattgattc	ttccgattaa	240
tgaacatgga	atgtttttcc	tttatcttggc	gctctcttta	atttccttca	tcagtgggtt	300
ataggtttca	ttatagagat	ctttccttct	tttgggtaat	tcctacgtat	ttaatttatg	360
tatcgctatt	gctaaatgga	atgacttttt	aaatttcttt	ttcacattgc	tcctgggtggc	420
atattaaaag	ctactgatgg	atggtgattt	tggattctgc	cactttactg	gaattgggtg	480
atcagttcta	atcgttttct	tatgcacccc	tttacgggtt	ctacatgtaa	gaatataatc	540
ccttcaaaca	cggataattt	gacttcttcc	ccatccaatt	gggaggccct	ttatatcttc	600
tcttggcctg	aaggctctac	ttaaaacttc	ttatcccttt	gttggaataa	cagtggggac	660
aatggacat	cccttgatcat	ggtccca				687

<210> 193

<211> 493

<212> DNA

<213> Homo sapiens

<400> 193

ctgctaaaat	gatgttgcta	aagcattcct	ttttcttttg	attaaacttc	atgtttacaa	60
aaaaattaat	tctagcagaa	taacgaatgg	ttttgttttc	tagttctctg	ctgaatgaac	120
agttttgcca	attatcttca	tagagtagtg	atataatgaa	tgcaacctca	aatgcaaacc	180
aaccaattca	cagtccatac	cccaatcact	tccttcatca	gcctcaaaaa	tcgctaagtg	240
aaccagtaga	atggtttttg	agcagtaata	ggaaagcaaa	tagaaagtca	agggggactt	300
tcaacgcca	caagaccaat	tcagatcctg	atctgactgg	tttctaatac	aatctctttc	360
cagagtaatg	gagcatgagt	ctgccacaca	gaactttaga	gagagtcctt	tatttcaaag	420
actgtaaagt	tggaagaatt	cattcatctg	caaagtcaaa	tgtcaaaagt	tgtgcttccc	480
actcctcatc	agg					493

<210> 194

<211> 424

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 9, 12, 17, 30, 179, 187, 265

<223> n = A,T,C or G

<400> 194

cyagggcant	tnagcangas	aaggaaatan	mggggattca	attagggaac	wraggakarw	60
caagttgtcc	stgtmtgcag	atgmsgtgat	tgtatatcta	gamcacccca	ttgtctcagc	120
ccaaaatctc	cytaagttga	taagcawctt	cagcarmgtc	tcasgatscr	acmtcwatns	180
gcraaantca	cmwgcattct	tatacaccaa	tawcagacaa	acagagagcc	aatcatgag	240
tgaactccca	ttcacaattg	ctacnmaaga	gaataaaata	cctaggaatc	caacatacaa	300
gggatgtgaa	ggacctcttc	aaggagaact	acmaaccact	gctcaaggaa	ataaaagagg	360

atmcaamcaa atggaagaac attccatgct catgggtagg aagaatcaat atccgkgaaa 420
atgg 424

<210> 195
<211> 229
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12, 29, 35, 36, 38, 42
<223> n = A,T,C or G

<400> 195
tgaacaccct tnggaaggaa cctgctcgna tgtannanaa anggaccgga cagtctgcta 60
aatcgccct ctttagacgc ggcgcgccgg ggcagagttt ttctctggtg ctttgacctg 120
tatttggttt aatggttttg tcctaattctc ttcaatcaat aaaattgtgc gtattttaact 180
aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 229

<210> 196
<211> 557
<212> DNA
<213> Homo sapiens

<400> 196
gcggtggctc atgcctgtaa tcccaccact ttgggaggct gaggtgggca gatcacttca 60
agttgagagt ttgagaccag cctgggcaac ataacaaagt gagatcttat ctctacaaaa 120
aaattaaaca aacaaaaaaaa caaatcaaca ttcatattgca gggctctttg gtcttcttaa 180
agaacaaaca tatgaaataa ataagctgat tcttaaagat aacaaatata atgagctttc 240
tcaactgtaa aagcatctct aagttgttct atcaatgcat atccactcca tgaactaacc 300
tgaagaaagt gttgaccatt ctaccaatt aactgtaaac taagattgct ttaatggttt 360
gcctaaattt gagtaccttt aaatttttgc tttttatcca aattcattct cccttcttca 420
aattaaatag ttttgttaga aatcggataa gcaagatgta ctttttagaa agggcaatag 480
aatcctacaa catgctagaa tttgaaatgt ttttttaaat cagtmmtttc tctatgctag 540
taactaagaa aattata 557

<210> 197
<211> 624
<212> DNA
<213> Homo sapiens

<400> 197
ttttactacc tatattttaa atgatccctg acgcccctca agacaaatat attaatTTTT 60
ttactttgtg ggatagagat cagaaaaaga gtagagatga aaatactgga gaaacaatgc 120
aggagatatt tatgaggtga gaatgtcaag aaacttgtaa agggagaata ctataatgac 180
ccctgaagag agagcttttag accagttgag tattagaggt tgccacgtgg ctattcatcc 240
actaataaat acaagaaatt actaaaatgg aagccactgg aaatatgttt tgaggaaggt 300
gagaatgtgg acctattata aatgggtgaa tatgatttct ttctcattaa gttcataaat 360
aactttcaga catgtaacag tttatgaagt gtgccgtagt catttagtat aagttttata 420
cacaaaagtg tttttactaa gactgtcaca ggttcttttg tgaatcttgt ttgtttttcc 480
tcattgtaaa tactgcaata gaacatttgt gtcttaacat aaggcaataa atgaccttaa 540
gaaccttcac ttttatatag aaagtggagg aaaagttggc agagtaattt gttgattata 600
gataaaagct cttgtagaaa ttgg 624

<210> 198
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 198
 tttttttttt tttttttttt ctaacactta tgcattttatt ttcattgtgta agaagaaaaa 60
 cgtaactagc acgtgaacat gactgcatgg atacacggct cagcacgagg ctaaagtcag 120
 aagtgagtga aagcaaaacc gcatgttgat ttaagtgaaa taacagaaca gaaaa 175

<210> 199
 <211> 871
 <212> DNA
 <213> Homo sapiens

<400> 199
 ctgttgatca atgatgagct cccaagagta accagcctct atatatgtag catcactggg 60
 ttctcaggaa aagcatcacc attgttcac tttgtgcaaa atgtatgcac aagtatcttt 120
 ttattttttaaaaagccctg acatttttatg actgctgctt ttctaagata ttttcaaata 180
 tacagtccat acgggttcaga cacaatggac tggggataga gacggctata gtgccgataa 240
 tggagaaact agccagagct tcagatatatt gttttccagg acatctcaat aattgggtac 300
 acctcacaat atgtgagact tgacgtcgag tggcacggca tactctggcg caggcacttg 360
 ataaagactg tgtttgcaaa tacttagcct gcacttcaag ataccaggca tctaagcacg 420
 tcccagatgg tgacagttaa tcttcaaaaa accctatgtg gaagtattat cattgtcctc 480
 atttttacaga tgaggaaaaa gagacacagg gatgtcaata tcttctcctca ggtcacacag 540
 caagtaagtg atggaacagt ggctcagcca tgaagctatt gctgttaacc actaggttga 600
 tttgccttca ttaatttctt cctaaaactg cacatttccc gttagtccct ctttttggtc 660
 tgtcgtttga ctcttggtta ctgcttagag gaagattcat tctattattt tctaacttag 720
 taaatatgtg caactccttg gggacatgac caggcaaaaag ctggatacag aaatgtatgc 780
 ccaaacacca tccaagtta cccctaacag gtcttttctg gaccctgttt gtaagggggg 840
 tatatttgga aaaattttta aaattttctg g 871

<210> 200
 <211> 737
 <212> DNA
 <213> Homo sapiens

<400> 200
 gacattttga aggtaacagc aatatctgtg tatagatggg gttgtgggtt tgttatttat 60
 ctgctattgc tgaactatcc tttgtcttga gcgataaaag agaagtaaaa tactaaagaa 120
 ctgaactgtc catttctgga ccatgagtaa agatgctggc tgtcaaaactt cctgttcata 180
 cattagttta tttatagagt gtactctcta tgtaagggtat tgactgataa tgttactttg 240
 acttcagata gcttgcagtt taatggagga agaagacaaa catgcaaata actaggtcaa 300
 tgaggcatcc tttgtgttcc attggaagct aggctgcttt gtaaccttgt taatttctgt 360
 ggttttggag tgcattcatt agcaaataca ccccttggtc ttatccattc tctgcttttt 420
 tctttatttg gcatttgatg acattttttc atgtggggaa attgagtcag gtgaggtgga 480
 aagaaaataa ggacacgaca ctaaaattctt tgatgttttt ccttaaaaaa ttgtttttca 540
 agtgctccat aaagggttgt gaagttttaa gagccatagg acttgatta ttgtgaaaga 600
 gtgtctctag ggggccaggt taaaccattt caaggactct ccttctctca tctcccttgt 660
 tccacccagg gtggcgaccc ccaaaaagca caaagcctcc ctttcttcat gggaagggtg 720
 aggaacggaa gggaacc 737

<210> 201
 <211> 493

<212> DNA
<213> Homo sapiens

<400> 201

tctagaaatg	cagcttttat	ttattacccc	atttctttca	agtccttggg	aaataacata	60
ttaagggtag	aagaaattaa	cacatgatgg	aaaagtcatt	gtgacgccaa	tgaatttcat	120
tgagtataaa	ctcatctact	tcaaatttat	ttataaacac	aacctaaagat	actcaagata	180
attattttaat	ggttagctct	taagttgaat	tggtctacat	aatgcgtggg	aagaaaacca	240
gatttttagc	cttcttgcca	aatccagacc	tctgggtgat	tttcttttga	cagaagatgc	300
aagttatttt	ccaatttcac	aattaaatgt	atttaacatg	aacattattt	tgctttaaaa	360
actataaaca	ttgtaggaga	attatagcca	gtcttcagtt	ataaccactc	caccctcctc	420
actttctctc	tctctctctc	tttttttttt	gctatgggat	ttaatgggaa	aaatatgtaa	480
aaactgtcac	taa					493

<210> 202
<211> 283
<212> DNA
<213> Homo sapiens

<400> 202

ccttttttatc	tcagtgcacac	cgtccggggga	cgcaggtggt	ggtgactcaa	ggctagcctc	60
aaagggcagc	cccacctcct	catcctggac	cacagagacc	acctgcttgg	cgcgccgctc	120
cttttccgag	aggggtggctg	actccgggggt	gctgggggctg	gggctgccgc	ccccgccgct	180
gttgctgtac	tcctcgcccc	agtcgatggg	ggctgccctc	ggacagcagg	tgcaggttgg	240
gggcactgtt	acgcaagacc	atgctgcccc	gagaggtaga	tct		283

<210> 203
<211> 713
<212> DNA
<213> Homo sapiens

<400> 203

ctgcttttgc	gcaaggtgcc	actggacgag	cgcctcgtct	tctcggggaa	cctcttccag	60
caccaggagg	acagcaagaa	gtggagaaac	cgcttcagcc	tcgtgcccc	caactacggg	120
ctggtgctct	acgaaaacaa	agcggcctat	gagcggcagg	tcccaccacg	agccgtcatc	180
aacagtgcag	gctacaaaat	cctcacgtcc	gtggaccaat	acctggagct	cattggcaac	240
tccttaccag	ggaccacggc	aaagtccggc	agtgccecca	tcctcaagtg	ccccacacag	300
ttcccgtca	tcctctggca	tccttatgct	cgtcactact	acttctgcat	gatgacagaa	360
gccgagcagg	acaagtggca	ggctgtgctg	caggactgca	tccggcactg	caacaatgga	420
atccctgagg	actccaaggt	agagggccct	gcgttcacag	atgccatccg	catgtaccga	480
cagtccaagg	agctgtacgg	cacctgggag	atgctgtgtg	ggaacgaggt	gcagatcctg	540
agcaacctgg	tgatggagga	gctgggccct	gagctgaagg	cagagctcgg	cccgcggctg	600
aaggggaaac	ccgcaggagc	ggcacccgag	gtggatccag	atcttcggac	gccgtgtacc	660
acatggtgta	cgagcaggcc	aaaggcgcgc	cttcgaagga	gggggctgtc	caa	713

<210> 204
<211> 275
<212> DNA
<213> Homo sapiens

<400> 204

gtagacaagt	acagcagatc	cagacaccag	atctagctag	gctaaatgta	cagtatctaa	60
cttgatctga	actgaacctg	tattccttga	tgatgcctaa	aactacatcc	atagaattct	120
ggtgaacctg	taatacagtt	ctgaaagtac	agttttatat	aataagatgc	tgatctcttt	180

attctttcaa gtaagagtgc tagagaacaa attgtgttac ttgccttggg atttattgaa 240
cgtctggaaa atgctgtcct cctagatcca aacag 275

<210> 205
<211> 694
<212> DNA
<213> Homo sapiens

<400> 205
ctgttcctgt acattttaact gaaaaaaaaag taactttaaaa taatataaaa atagcactca 60
tgtatgtcct acagttatag gtgaaatttg atattgtttg tcttacatag catacctata 120
gacagcttaa gtaaagtgac tgtaaagagg gttatgctta ttgatgaact cttgtagttg 180
cttaccagct ctgttagtat agttaaatg atctcagtag cttcaagtat ttataaaaatg 240
gttgaagtcc aaatacatgt gataattaca atacactttg aattaatgga ggggtgggagg 300
ctagttgaaa tgcattttat ttacccaagg agtatgttaa aatgatagtt ataaatgttg 360
gaagttttaa gcaagatact cagtttagtt ctttacaat cataagaaga acaaaattag 420
atgttgacat tgctatttta ggctgtgtgt tttccatatg cttcttgctt tccctgtcac 480
aggtgggtggc agcaatattg gtgtgattga gggtatgctg gcaccactcg cacacaggcg 540
cacaatgggtg ttagctgggc agaaagagtg gcctctctgg ctaccgggct gggggcgacc 600
tttaccatag gatgaagtaa ccttgcattc ggctgcaagg tgtactgtac cgtacacagg 660
tgctgggtcg atggccactt tctgcttttc tttc 694

<210> 206
<211> 704
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 12
<223> n = A,T,C or G

<400> 206
tttttttttg gnaaaaacag ggtttcatca tgtttgccag gctagtctca aactgctgac 60
ctcaggggat ttgcccgcct caccacaattc aactttcgta agtcagtatt taccatctaa 120
ctcagtgtcc caaaatttaa aatttccttg cactttacag caaaaataca tattggggct 180
ctactgaagc aatatataca tgtcaaaaact aaaaatcaga aaagcaaaag ggtccattca 240
acatatagca gcttatattt aaatatgtac aggtatgtat gttttcacag ttagatcttt 300
aaaaaaattt atatttgata tgttcaaaaa tacttctatt ggctataaat aatattttta 360
aagctcaact gatcaaaatg cattccaaga acatatcaaa tttaaataaat cttctacgtc 420
tttaaaaaca gataattgaa gtcagtaaag cttgaggttt gtgttaagtg tattctgtca 480
gtccctacta ctagggaagg cagaatcttc taaatacgat acgaaagaaa ctcccaaagc 540
ttggaaggaa tcggcagctc ctgaactttt tggggggggg atccctcttc gggattgaca 600
tgcgacataa atgttgcaag ctaagggacc cccccgggg gagtggggcc caaaaaaac 660
cacaccttcc ccgtcaatgg tgggtccccc accaacctta aaaa 704

<210> 207
<211> 225
<212> DNA
<213> Homo sapiens

<400> 207
ccattttaac tgtactgcca atagaattct ggaattgtgg aaaattgtat cattgaagtt 60
cagtaggatg tgtggcttaa aaatttatca ggaccacaaa aaagaaaaca aaaatatttg 120

gtactgaggt tcattgccag ggcaggaggt atttccagaa aatactcatg cctgtgttct 180
gttccttgct ttcccaaata ctgcatgtga ctttcctaag cggca 225

<210> 208
<211> 678
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 382, 391
<223> n = A,T,C or G

<400> 208
cctatatcta tcaaaaaaaaaa tccagttcct aactaataat ctcccaaaaaa gaaagcacca 60
ggaccagatg atataaatgg caaatTTTTT caatcattta aggacaaaat aataccaatt 120
ctgtatcatt tcttccagaa cacttcctaa ctcatcgtat gaggccagca tcactctaatt 180
agcaaaacca gataaagcca ttacaagaga gagtgacaga ccaatgtggt tttattgagg 240
atgcaaacia aatttaacat aatatttaat agtgaaaaac tggatgctct ttccctaagt 300
tagagattaa ggaaagaatg tccccttcac tactcccata caacacctta ctgaaaattc 360
tagctagctt tataaaataa anaaaaacca naaaataaaa taaaagggtg acagactgga 420
agatacagtg aaggaggaag aaataaaatt ttctttgcgc ataacatgat tcttctatgt 480
ggaaatcaca gagatttgaa catttttttt ttttgagaca gtttttgctc ttgttgccca 540
ggttggagtg taatggcgcg atctcggtc actgcaacct tcacctcccg aattcaagg 600
gattctcttg cctcagcct tcccgagta agcttgggga ttaacagggc atggcacccc 660
ccatgcccc agctaaat 678

<210> 209
<211> 720
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 366, 399, 406
<223> n = A,T,C or G

<400> 209
attattttga accctagcat ttagaaatga aaaactTTTT ataacaatca aatacatgat 60
aaagtatgca aagagtagga aattattctg atgacatatg gagggttaca aaggagaaaa 120
ctttttgcta cctctgataa agaatagact aaatttctcca agaccaatct gactggtgtc 180
ataataaaag gaggtacaca cggaagcaca agggatgtgt gcctctggag gaaaggtcag 240
gtgaggactc agtgagaaga caagccaagg agccaggctt tggagaagt caaccctgtt 300
gacaccttga tcttggacta accctgtgga caccttgatc ttggactttt agcttccaga 360
actgcnagaa aataaatttt tcttgtttaa gccaccana gtgtantgtt ttgttatggc 420
agccctaaca aattaaaatt atattttaac agagaatata aaattctaatt ataacatttt 480
acagtaaagc attcatggtc ttttttttct tattaataaa tccatcaaaa cagaaagttt 540
tgcaaaattt taacacattt ctctaccact actgtttcta ctctcttaaa actactccgc 600
aaatataaaa atagaaggcc aaaatgcac attaaaacga tgtttgggga ctaatggcct 660
taaaattcta ttacacttgg aaatatacaa atattcaaag attatctatt gatcacctca 720

<210> 210
<211> 277

<212> DNA
 <213> Homo sapiens

<400> 210
 tccatgtatt tttatacaga atggaacaat atgtatgtat gcaatyktta cattccacca 60
 tgaaataaaa cagtataatg aaaataacaa tagattcaaa caatgatatg ctatTTTTTT 120
 ttacctatga cattggcaag gtcttcttaa aaaatctgcg aataaccgat gttggagaga 180
 tcatggggaa atagccactc aaatgttact catgagagtg tacatatgtg taacttcact 240
 tggagggcaa tttggtgata catttaaaaa gttttgg 277

<210> 211
 <211> 715
 <212> DNA
 <213> Homo sapiens

<400> 211
 gtggtagaaa tactaatttt gcaattacag aaaaaaacia atgccattca catggttyct 60
 aacaaaaagt gtctgaccac cccaccccc caccctcaa aaagccctta aataaagagg 120
 aagatcaaaa gaaaacaaaa taattcccga gtttcacctc atacatacaa tatagcacag 180
 gaagtggcaa agtttaaaat aatgccttta ctgttaggac tagtatgctg tcaaaagcca 240
 caatcctttt gtttttagtga gttgattttc aatagaaaaa tacaatatgaa catgtgttta 300
 agttccaaca tggattgagc acctctgaat ttagtatcaa atgattaatt ttatTTTTTca 360
 gatgtcaaat cttagtataa aattttccat tatttttaaac ttcacttgaa tctttaaaaa 420
 agctgtctaa attgtactat atgagttcag tttaatcttc tgtaaaatgc taacaaattg 480
 aactgtcagc agtcttttaa aaaaaaatgg gggctgggtt atttctagaa gaactctcat 540
 taagctttga aaatcagaaa tcagagacaa ataacttcag atatagacta gctccacaag 600
 caaatTTata caattatctg taacagtcta tacatatatg tgtatatata tataccgtaa 660
 ccactttcat aggtaaaaaa tattaacttc atgtcacact atgatcagaa gtata 715

<210> 212
 <211> 717
 <212> DNA
 <213> Homo sapiens

<400> 212
 agcctcccc aatgccttaa aaggtcacag tagatctcag ctctgaacag aaactcaact 60
 gaaactcttc ccacaacca gcagtagata tattaaaacc tacaattttc agggatacaa 120
 ccaatatTTa attcttttga gggttttgtg tttatacaaa ggacacaaac acacgtataa 180
 aatgacgatg tcaatactga ttaaacagaa caacaaaata agaagctcaa attatcatca 240
 gctatttgtg atatctgaaa taacaataat gcacttgatt ctgaaagaat gattagagtt 300
 cctactctga aaatctaatt gtcttgatgt ggcgaagtga gaagaaagga tgatttttct 360
 aatgaaaagc atgtatacgg gtagcccttt gcgagattct gtcaaaacc tgaattttgc 420
 attagctgtt ttaccaccca aacgttttta cccgaggatg tgcagcaatg ggaactctca 480
 tacactgctt gtgggaatat aaatcagtat aaccactttg gaaaaccatt taacattgtc 540
 aactacagct ctacacacaa gtgctataac caccatttcc actccagggt atacacccta 600
 aaaatatgaa gtgcccatgt ctacccaaaa ggccgcctaa aaggaatgct tttgagaagg 660
 gttaaccttg ttaattagtg gcaaaactgg gaaaacaacc cccaatgggt cccatcc 717

<210> 213
 <211> 599
 <212> DNA
 <213> Homo sapiens

<400> 213

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cctgttttgg cgaggcagga ggggaagcggg atgggagtg tggtaggcc aagggtagtt 60
caaagcgatt cagcaggatg atgaccacag gagtgctgga gccgggcctt tcagcccccg 120
tgtggatgat gaccggccat ccaggacatg cgagggcctg ggacagtgga cagccagtgc 180
cacacaagga aggaccgatt aaatgacaca gttaaaggaa tttggcctag ggagtgcagg 240
ccagaaagggt ttgggtctttt tatatatgta acattggaaa aaaggaacat ctctgttcc 300
ctgtattaag ttttgacttt agctcagcaa atgcagtgtt tgtggcagta aatatactct 360
gataacaatg ttctttccca ggaatttaga gttttatgat ggttattgaa aatgtttaca 420
tgacaggctg tcaataatat tttttgcctc taaaaataaa acatacataa agtgtacgga 480
ttttaagtat gcaactcact gaacttttca taccgtaata caccacccta gtaaccctcc 540
cccagttcaa gatgtagact gtttccaata acccctcctc ctgttcctta atagcccc 599

```

<210> 214

<211> 789

<212> DNA

<213> Homo sapiens

<400> 214

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ccttatgaca aaccttgcta tgccaaggat atgcttcact atcttcatct atcaaaacac 60
tatgcatcat agatatctaa ttttttcttc tcttgcatga agtctttcct gatttccctc 120
tgctgaaatt tctctcttca aatgatgtgt ttccatagta ctttgtccct tttcaaagat 180
atatctcaca tcgcatatct taccacagtt agtttcatct cttaactctc acactagatt 240
acaaagtcaa tatagacaaa gaaatgttca accttatata acctcctctg cctatgctgg 300
taaattgcac ctactatgtg ttcaataaga gcttgtcttt ttcaatatac aaaactttgt 360
aaagattaaa gaccttgtag aaagtcaaga ggaagatagc aatttcactt ctaagaactt 420
accctaagga aacattcatg aagagataca aggggttatg tgcattgatg ttcattatca 480
tattattctt cattatgaag attatgatgg taataatgaa aatgattatc ttgtattggg 540
ccttatattga agtcaagcat tgagaatgta ctttatctgc attatctcac tgagttctcg 600
tagcagccct ataaggtaca gactgttctc taagcttaaa aaaataaagt taatgtccaa 660
ggtcaaacaa ctagtaaaaag aaggggggcta ggaaatttgg aacccccaaa ggggcaacct 720
ctcaaggggt atgaatcctt accattatta taaggaagct tggcccatgg tggcccaaaa 780
aaaaccggg

```

<210> 215

<211> 765

<212> DNA

<213> Homo sapiens

<400> 215

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ggatgtctga gcaggagaga gaccatgtga aggatggact gaatggagac ttgtatcaaa 60
gagtcctgag atcaaagact tgtattagag aggggtgttg tagtaatcta gtcagggtat 120
gagaaatggg ttgtattaga gtgtcaggag tagtcgtggc aaaaatatat agatcaggat 180
gagggatggg cctcatctca caccctgact ccagtcaatg gcagtggctc cctggagtac 240
actactatag gaaggatttt gttaaagtttt gtctggcctc agtggagggt gaggtagggg 300
aggagtctta tgaacagtta gtggtgtctg ccatggttga aacaatggag aagggggaca 360
ccttttctgt gcagatgttg cttctggtag atataatcca caatgtaatg ggagaagtac 420
taagaatcag taaattatgg aggggtgtaa agactactga tatttaagcc tgcggaccgg 480
acttagagaa atgatatgta aaggagaaat atccagcaaa caaagatatg acattgaagt 540
ttgggactgc gattagtacc agagatttgg attggagggt atttgtatag aatggatagg 600
tgattttact cttgcaattt ggattgaggg gtggggaaaa ccagaaaggg gctggggggg 660
aaattagtag aaggtcacct tgaattcatt gtggtccata tcaatgctga aactgattgg 720
ggaacttttt actcttgagt ccctttgtaa gggaacccca gaaag

```

<210> 216

<211> 780

<212> DNA
<213> Homo sapiens

<400> 216

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cctttttctg tggcaaattg aggcttttca ctgcctgtag agacaataca gtaagcatag 60
ttaaggggtg ggtcagaaca tgttaagata acttactgta tatgtattcc cttgtatttt 120
gttaaagctg gaacatttga tttttttcca tttatttatg aaaaaatatg aacctatttt 180
catttgtaca aggtaattgt ttttttaaagc aagtcacctt aggggtggctt taattgtata 240
agtcaagcac atgtaataaa ttcaaaacct gcagttaaca ggatattaga catcaatcct 300
ggtaaccaa tattaagat tctcttttaa aaagactgaa catgtttaca ggtttgaatt 360
aggctaaaag gtcttgcagt ggcttttcat ggcccttcaa attggaatgg aactactgta 420
ctttgccatt tttctataaa tcagtacttt ttttttaatt ttgatataca ttgtgtgaaa 480
aaagaaaatg gctaataaac tgtattaaat cttaaacaat gtataaagat tgcacttagc 540
cagttcaaag tgtataactta ttcataatga attataacag ttataatttct gtgttttctt 600
gtaaatgttt cttttccctt aaatacagat aattcatttg tattgcttat tttattatga 660
gctacaacaa aaggacttca ggaacaagta atgtattagt atggttcaag attgttgata 720
ggaactgtct caaaaggatg gtgggttattt taaatataaa tagctaattg gggtggtaaa 780
```

<210> 217
<211> 810
<212> DNA
<213> Homo sapiens

<400> 217

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cttttaggca gcccggcacc ttcattccata ggcagagaga gaactgggtg ttggagactt 60
attcgagggt ataggaaggg ccctgtgaag ttgatttaac ttttgatgt cagactgtga 120
aagctcctga gaaacttggg gtaataggat cttcttttgg ggatgaaaat ggggaaggcg 180
tgaggacctg gactacttct ccctaggtca gaaaaagaga attaccctt gacaaatatg 240
atacctgcta ggtatttccc agggaaattt agggattggc gtctttccct agcatgtgga 300
ggaattggca gacagcttcc taagggcggg gagcgggggc ccaaggctga cactgcttgc 360
atccacgtga ccttaagtta tggcagatga ctctgaaacg gactgaggcc aatgagaaca 420
gatggatgga gcactcaggt tagacttggt ccttctccta tgctggagga gagggatggt 480
tctctagaat gttggaggtg agttgagagc tcgcctcttg aatgttgaac agtgtactct 540
tctgaaaact gcatattcac tttatgtggt ttcagaatac tgggctcaat actaacataa 600
gaaagacact tcattgagaa attcttaagc ttacagaaaa cctatctctt tgcacattcc 660
acataacccc tagcaaatg caggttcttc atacttctgt cctttttcca ttggaagaat 720
tgcttaagga aaaattaatt cctatttatt cccacaaaag gttgggcatt gctttgattt 780
taccatgg gggaatgtgc ctttgaattt 810
```

<210> 218
<211> 817
<212> DNA
<213> Homo sapiens

<400> 218

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ctgctccctt atggaggtct cttcattaat aattattgga tagatagaga aggtgagcct 60
gtggcttcca agtaccggct tttgctgaag gtctacatgg gaagaagagc atcatttgat 120
attcagtaga tctgccacac ccaactggct ccatctcctg gaaaacagca ctactacaa 180
gcaactgtaa tagcaccag caatgaccac gctgctcctg ctggctcttc cgtacaccag 240
taaatgaact caccaatgta ttgcacacat acatttcaca gtagtacaat aaagccctgt 300
atcaggagtg gtaattcaat gacttgactc tatagtgcac tgcagcttta tgtcatacca 360
acattcaa atattcaaat ccttccaatc catttggaaca aaaatacacc atggctgcca 420
agacacatgt atttttcttt cttccatgga ctctaaact gctcccacaa tcagcagtgt 480
```

```

tcttctctca gaaattatct taagcttctc tactcaatgg gaggtacaca cagagacctg 540
agaatatgca gaggccagaa tctctgtctg tgctagagat caactgtact ctgcccacct 600
ggggaacaca tcctctgggt aaagtactcg gaagtaaatt acattccctg gagacagata 660
cgggctttca ctgcagcctg ttagaaaaca caatgtctgt aagttacctc atagggtcaaa 720
gagttttgga ttatatTTTT cataatgggg ctatggcctt ttaccctgg ttttaataca 780
gaaccacctg cagaaaggac attgaaatta aaagcca 817

```

<210> 219

<211> 661

<212> DNA

<213> Homo sapiens

<400> 219

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ggatgctgag gcaggaggat tgagtcctgg agtttcagga tacagtgagc tatgatcatg 60
ccattgcact ccagcctggg caacagagca agattctgtc tctaagaaaa ggaaaaagaa 120
aatgaataga tagtggtatt agatgttaat gacatcagtt gtttttattc tttattcttt 180
cttagaaaaca gattagtttt ctggaattaa agaactacca tttttctttt ttctacaact 240
ttcaagagct ggtgaagaaa tgatgttttag atttaataga tatagtagca gtcatatatt 300
aatagaatag aaactgagac tctaggaaaa agatagacat gagataagga gtaggcatgg 360
tagacatttc tagattattt atgaaaatgt tgtagaattc attttttttt ttgggtctgac 420
ctttggcaat ggtgctgagg aagggaaagc cagcccatca ggcaaggctc tgttttctgc 480
attttatccc gtttgattct tctcgttagg attggagcaa ataatttcaa tatgttcttc 540
gctgggttta tcatagtac ctttcattta aagggacttt taacaattga cttaaagaac 600
actgagatgt gatattttat tgggatttga aagttgccat tgggttttac cttccttaat 660
t 661

```

<210> 220

<211> 792

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 169, 171, 172, 399, 400, 401, 402, 643, 666, 724, 727, 731, 755

<223> n = A,T,C or G

<400> 220

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cctcttttta ttctacaaa taattttcaa gtacacacaa ttgggtaaac aaagaaacaa 60
agccaccaag aatgaaaatc agtaggaata acgaacaaga ctacacagatg tcaaacaagt 120
ctgtgggtct tgcagacttc agatgttgga attattagtc gtggcaagng nncaaaacat 180
tagctattac cattatgttt accaactagt gaagtgaact atgagaggat atattaacca 240
cagaagttaa tagaagaata gactcctgaa aatatctgga tgctacaaac taaaatatag 300
tatataatcc ttcatagagt gtcagtgact tcatatttat aattacattt ttgtatatta 360
gcagtgttct agttcttact gccttatctt taagctgann nnaaataaaa ttatatTTTg 420
ggattcaaaa acacatagct aatgattact atgtggcagt gttacattac tttatcacat 480
atcattaaca taatctgcat gtgttcaaag agatcttcat acttctttgt agctccact 540
tctttgtcgt cttttagct cccacaacat ctagaacagc acaaccgtat atggagaaaa 600
ctcagtctag tattcgttga atgactaatg gaaaatttag ttnataaaca gaactttctt 660
cattgnacaa attatcttgc agaagaataa tggccttagt ttaaaattat catatttacc 720
catntcncca ngttatttta tctcttttgg ctaanaattt tgaaaacggg accttttacc 780
ctttggcatt tt 792

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<210> 221

<211> 759
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 245
 <223> n = A,T,C or G

<400> 221
 cttttctgct gctccgggag gtggagtggc ctggcagagg gcacatggct gccacctgct 60
 gcaaggaaaa ttctcagtga agactcctca gtatgaagga gataagcctg cacaatcagt 120
 cactgataga tgcttagtgg aaaaacttcc aattcccatt tacagctctc agagctagga 180
 ttaaaaactc ctggtcataa actcatgtga tgagaagtta tagcacgccc tcatttttcta 240
 catanccact tgcatttatg gttggctttt gaacttgcta gaagggaag aagtgcaa 300
 gtgtcctcct tagagctact ctccctccct tgggtgggtt ccagtttgtg cattgtccag 360
 atggcccagg agctgacgat caaagggaag aagtcattgt tgtcatgaga atgctttgct 420
 gcatcaggat tcagtgaagc tggtcaccgc ctggagccca tgcagcctca agaggcagga 480
 tggagctcag aaaccatcac tgagggttaga aagtgagcac caaagttgag ggaagcccac 540
 aggagtgagc cgaagtgtc cctttggatt tccaaagtgg gtgctgctgc ttcttccatc 600
 agccttgctt ctgaccccaa tgcgttctct gtgccttctt cttggcattt tgctgtcggg 660
 ggcccaagga aaaaaattcc tgcattggcg tgggtgaaaa agatggctgc ctgctgaaac 720
 ctgatttggc ctgggtaagc cttttggagc cccggttaa 759

<210> 222
 <211> 699
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 7, 77, 81, 84, 85, 278, 289, 291, 298, 301, 368, 395,
 433, 441, 508, 569, 633, 646, 667
 <223> n = A,T,C or G

<400> 222
 ccttntnaag agttggcatt aattcttcac taaatgtagg agtagaattt atcaggtaag 60
 ccacactgac ctctggnctt nttnnogccc gatgattttt aattagttga atccctttac 120
 ttgttatata tgtattcata tattctgttc cttcttggat ttacttttat gattggtgcc 180
 tattgaggta tttattttcta gtttgtggta cttcatgtgt ttaggttttc tagacagtgg 240
 acatagaaga ttcaagaagc taaatgtagg agaatgtnta atgtaggana ntgaggcnac 300
 natatcatca atgaatgact tgaagtttcc tctgttgtaa agaagatgat taccataact 360
 gccatagnta atattgatgg tgtaagtcaa ataanaaggc aggaggaaag ggacatccat 420
 cactgaacca canatcagag nctcattgaa gcctttgaga agaatccaca aaattttaca 480
 ggataattca ttctctgcga tcaccacnag aagagaaact ggttaaacag acaggatttc 540
 cagagtccaa aaattttacat ttggtttctg aaccaaagac ctcagctccc aggccacagc 600
 aaaagggggc ttatgaattc cctggcaccc agncccaaga cccaanaacc tcattcttgat 660
 tggtttnggg cttgggaaac caaaaaacca atgggtggc 699

<210> 223
 <211> 598
 <212> DNA
 <213> Homo sapiens

<400> 223

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aaaaagagaa agtttcagat ttgccattca aggcttattt atatatatgt gtgtgtatat 60
aaatacatgc acacacttgc atacatatat atttttggct gggggagtgt gagttttgcc 120
tttctaaggg agggaccgcg caggctcctt tgttctgtat tctggcggag atgggtcctg 180
gccttgtgtc actggcttat ccttaaagat catctcccat cctccccagc gccatctgtg 240
tgcagcaacc agaaagggat gaacttggcc ctcttgcggg cctggacaag gtctcttcct 300
taccctttct gttgccagtc agcaacctgt aactcacatt ctcttcccag tgaatccctg 360
ggagcgcctg accctgggtg gctgttcagc ttctgctgc tggggccagc aatttttgag 420
gatttatctt taggccaggc ttgcctccgt acttatccct gctctcccat ttctctcttg 480
tttgagagag aatgaggaag caaagagtga gaaagaatag gggctgaaga cgccactccc 540
agatggctct ttctatcctg ctcttctgtt gaaacacacg tgctgtgggc ctcaggcg 598

```

<210> 224

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 479

<223> n = A,T,C or G

<400> 224

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aaacctttat gatgacttcc ttatgaatta ctgaacgaac actggaatgg gactcaggta 60
tcctgaggac atctctcaac tctggcctta gttccccctc tgtaaaatta gggtgccaac 120
taaatgatct acaaggtecc ttccagcgcc gccattctgt aattacatca tgtgtaactg 180
tattaaacat acacaagtga ctgccaggca tgggaatgta acttccgagt aaatgctttg 240
gtttgttcag aatacactat gaacttcttt ccaaagacgg gttgtggtaa atagtggata 300
ttttgattat aagaaataga gtttccttga agcttttagc ggagatacag caatagtgtg 360
gtgttcctac aaatatcaca gtgtattcaa acatattttt ctatcaaaaa tcattttttg 420
aaaagctgtg tgttttttatc caacttgtga taataaatgt tctttatttt agaacaaana 480
aaaaaaaaaa aaaaaaaaaa a

```

<210> 225

<211> 295

<212> DNA

<213> Homo sapiens

<400> 225

```

cctgtatagg gctcgtttcc ccacacatgc ctatttctga agaggcttct gtcttatttg 60
aaggccagcc cacacccagc tactttaaca ccaggtttat ggaaaatgtc aggaaaaaaa 120
aaaaaaaaaa cacatgcact cacacaatac ccaaacatca raattagaag ggcataaaac 180
agggggcctt ataggctgaa aaatatctta ratttcaraa cagaatacca atcaaattatt 240
gaaaattcct ttgttcaaaa cacaaagatg ttttgttttt aatgggagtt ttttt 295

```

<210> 226

<211> 372

<212> DNA

<213> Homo sapiens

<400> 226

```

agattcctgg cttagagcat gcgagcattg aaggaccaat agcaaactta tcagtacttg 60
gaacagaaga acttcggcaa cgagaacact atctcaagca gaagagagat aagttgatgt 120
ccatgagaaa ggatatgagg actaaacaga taaaaaatat ggagcagaaa ggaaaaccca 180

```



```

ctggggagggt agaggaaatg acagagaaac cagaaatgac agcagaggag aagcaaacaat 240
tactaaagag gagattgctt gcagagaaac tcaaagaaga agttattaat aagtaataat 300
taagaacaat ttaacaaaat ggaagttcaa attgtcttaa aaataaatta tttagtccgt 360
atgaaatgaa at 372

```

```

<210> 227
<211> 599
<212> DNA
<213> Homo sapiens

```

```

<400> 227
ggcccccgctc gcgggagccg cttcgggcct tctgggcatg tctgccatat ggctccagggt 60
ttgtttttct ccccggcact ctgacgggga gggctcccgg catctcctgg catccgggta 120
gaggacgcgg aggatgctga gctgctggcg cactgcagca caactagaga tgtacggatg 180
cccccatctt gatcttacag aatcagagggt acagccgcga gaaagagtca agaacagaca 240
gagtcgcttg aggactcagg aggggtgtttg ctgcgttgac aacagactac accctcacag 300
tttgctctgc tcttccaaca ccagtgggaag atgatcacat cccagggatc agtgctcgttt 360
agggatgtga ctgtgggcct cactcaagag gagtggcagc atctggaccc tgctcagagg 420
accctgtaca gggatgtgat gctggagaac tacagccacc ttgtctcagt aggggtattgc 480
attcctaaac cagaagtgat tctcaagttg gagaaaggcg aggagccatg gatattagag 540
gaaaaatttc caagccagag tcatctggaa ttaattaata ccagtagaaa ctattcaat 599

```

```

<210> 228
<211> 343
<212> DNA
<213> Homo sapiens

```

```

<400> 228
aaagtaaatt gtatgaaaaa ttcatttctt caattgcatt agccacattt tgagtattca 60
tgtggctggg agattctgta ttagcacaaa gatatggaac atttccatca ccacagaaag 120
ttctgttgga cagcactgca ttagaatatt ttcatactgc tcttcctcaa ttaatttttg 180
ttgttaaatgt tgatgtcttc attggatggg tcataatgtt ccatgaaacc gctcaagtac 240
acaattgtat gttctttgta tcctttacca caaatatctc gctctgctca tttcttttgc 300
agcttcctat aaagtttgtc ttcctcaaaa aaaaaaaaaa aaa 343

```

```

<210> 229
<211> 417
<212> DNA
<213> Homo sapiens

```

```

<400> 229
ctcaagctgc agtccaccgg gtatggttct ggatggttcc cccaagggag caggatatgta 60
ggaggtgaag aaaactgaga tttcaagtat gggagagttt ttactatctc cattcctgga 120
ttaaaagtgc tgaaaaagtc cacagttaaa cattccttta ttcaccctat ggctcccaag 180
aaaagcattc ttcctctgga gtactggtgt actaagggga caatacacca aatttgttga 240
gtttacaatc aagtctacta aggttggact tccttatcag tttggcagag tcccagggca 300
gaataatcat ccatctacag gtctctgttt cctctccctc cgcagcagtg gagagcatcc 360
cagtgtttgg ggcactgtgt tcctcttcgt ccctgcacca gaccctggaa gccttgg 417

```

```

<210> 230
<211> 462
<212> DNA
<213> Homo sapiens

```


<400> 230

```

gaaataccag aagagaaagt ttcattgtgc aaatctaact tcatggcctc gctggctgta 60
ttccttatat gatgctgaga ccttaatgga cagaatcaag aaacagctac gtgaatggga 120
cgaaaatcta aaagatgatt ctcttccttc aaatccaata gatttttctt acagagtagc 180
tgcttgtctt cctattgatg atgtattgag aattcagctc cttaaaattg gcagtgctat 240
ccagcgactt cgctgtgaat tagacattat gaataaatgt acttcccttt gctgtaaaca 300
atgtcaagaa acagaaataa caaccaaaaa tgaaatatcc agttttatcc tatgtgggcc 360
gatggcagct tatgtgaatc ctcatggata tgtgcatgag acacttactg tgtataaggc 420
ttgcaacttg aatctgatag gccggccttc tacagaacac ag 462

```

<210> 231

<211> 328

<212> DNA

<213> Homo sapiens

<400> 231

```

ctgtggggttt tcctaaacgc ccctcatctg gttgaagccc tagtgtttct ttctcacatc 60
agaggcaaatt gcattgggggt gggctctggt tggacaataa atttcctctg gtttggacca 120
agaaaaacag agttctttga ccgctaacat atatgtaaaa agaaagtttg taaaaacaag 180
agttaaaatg cttctaacag tgtgggtcatc actgcacagg aacttggaat tggcattcgg 240
ggttgtgtct gtccatgtgg tttcgttgta tgtcatgtgc tctcagctca gacagagaca 300
tccaattgac ttctgacttg gggcattt 328

```

<210> 232

<211> 595

<212> DNA

<213> Homo sapiens

<400> 232

```

cgccaatttt agcaaataag agattgtaaa agaagcagat tgaatgaaga atttttagct 60
gtgcagatag gtgatgttgg gatggaaaat gctaataaac taccctttct tttatcaagt 120
aattaataata aatctacata aagaacccaa aaggctgttt tataaaagtg aaatatccag 180
tatttcagag ggccaggcaa gagcacttca gatgaggcag tcaaaatcat ttttttccag 240
tgaggataga ccacaagtgg gtggtgagac cattgaaagc ctttatcaac tgaagagtcc 300
atttaacagc ataatttgtg ggaagactgg aatagggctg aataaatgtg tttgaatctc 360
taattttata ctttcttttc ctgaggaact tgatttttct gtccctggat cgccttgtca 420
taattgggtc tgttcctttt actaccactc ttgagtccat atatgaaatc attaaagttg 480
gatgatcagt tttttataaa aatatatatt tttgtccaag aaaaaaaaaa gcatacatat 540
gtgattatgg ctaaatcaaa ggtaactgga atgtatatac ttttgctaat gttcc 595

```

<210> 233

<211> 600

<212> DNA

<213> Homo sapiens

<400> 233

```

atgaaggtaa actctaaaat cttcataggt caacaaagaa aatttatcct tcacacttat 60
ttctagaaag cagcagggtt tatttcctag attgcttaca atgaagctag aatatctgcg 120
ataactgtag agtttcaaaa aggatcccta gggctacttc tacgtttctc ttaccagttg 180
agcactctcc ataatttcca gacgggtcat gggggagaat gatagaaatg agcgtgggaa 240
gaaagacaat gaaattagaa atgggtgaga cacatgggtg tagaatgcta agagcaggga 300
tcaggacaat caaccaggtg tctaggaagg gtcaagtcac cagtgtcatc tgctgaccaa 360
tgttaggaag aaataaactc aaaggaaaca ccacattttt ccaattaaac tcaaacttat 420
tgacttgtgg tggttctttg atgttgtggg gactgctata acagaaacca attggatttt 480

```

caagggcaag aaactttgcc actgaataag atgatgtcat ccttcctgat aacaaatagg 540
aatgggtggt cagctctaaa cagcgtggac tgaggggagtt gcttttctac aatattactt 600

<210> 234
<211> 500
<212> DNA
<213> Homo sapiens

<400> 234
aaattcctaa ttcttttact atctttctcaa cttttcccaa agataaaata aatttcacat 60
aatttcacatg aggggaaatg gtagttgtaa aaaactacct caagtagcaa tcaccgctgg 120
cagtgttttc tcactttctg ttctgcaatt gcaatcacac ttccaaaaag aaaagcaaat 180
gtttgctaaa ccatagacag acaacctctt tgtgactggg attataagggt ttataatgaa 240
aacttatcaa atataaaagg tgctccctct tgaaaatgtg tattttattt gaagttttga 300
gtaagagggtg agtgtttggc aattttcaac actccctca aaaatctccc aaagttgcaa 360
aaaagtcagt ttagtaaaat tccaagcact taaatgcttc attgagggcc agttgatata 420
cgcaatgcac taatgtgtaa aaattaaccg aatgcaacta ttttataatg gagagctctt 480
accttttctt tccagttttt 500

<210> 235
<211> 159
<212> DNA
<213> Homo sapiens

<400> 235
aaaatttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60
caactttcag gccacagttt tgaaggctctg aagtattaag ttgggttgat gaattagtcg 120
gttggcactt acgaacacat ttattgcctt gccatcttt 159

<210> 236
<211> 254
<212> DNA
<213> Homo sapiens

<400> 236
aaataagtga ataagcgata tttattatct gcaagggtttt tttgtgtgtg tttttgtttt 60
tattttcaat atgcaagtta ggcttaattt ttttatctaa tgatcatcat gaaatgaata 120
agagggctta agaatttgkc catttgcat cggaaaagaa tgaccagcaa aaggtttact 180
aatacctctc cttttgggga tttaatgtct ggtgctgccg cctgagtytc aagaattaaa 240
gctgcaagag gact 254

<210> 237
<211> 591
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 497, 505
<223> n = A,T,C or G

<400> 237
tttttttttt tttttttttt tttttttcta atttttactt tttctcaagt ttaatgtara 60

```

catacaaraa aacatcaagc aatgttttatt gkgcaattcc aatcattatt tgcaraatct 120
tggttttaaag tcagtyttta tagccatttc aactgcttgg tttaaacaaa aagcaacaat 180
ctggttatyt acctataaat ttcattggtat ttyttttaaac actgaagtac taaaagcact 240
gatgatttgt attataatth ttaaaatatt taaaacctac acagatttca taratcattc 300
cttttataaaa ataatacaaaa taatttgatt atytggaaaa aaaaatttctt gaaacaragc 360
cctttccagg tatyttcaat ctctgtaaaa ccccaaacc caaacagagt aratgatgaa 420
ataaggattt ctcaagtgtc caagactgtc tgaaatttaa ggttgaaaaa tggactggcg 480
tttttcatgt ttcctgngaa ttcanagctt acaggtggca tcaaaactca aatctctggg 540
atggctttac atggctttca ctttgatttg tttcattttc atttgcttct t 591

```

<210> 238

<211> 252

<212> DNA

<213> Homo sapiens

<400> 238

```

aaatggcttt tgccacatac atagatcttc atgatgtgtg agtgtaattc catgtggata 60
tcagttacca aacattacaa aaaattttat ggcccaaat gaccaacgaa attgttacia 120
tagaatttat ccaattttga tctttttata ttcttctacc acacctggaa acagaccaat 180
agacattttg gggttttata ataggaattt gtataaagca ttactctttt tcaataaatt 240
gttttttaat tt 252

```

<210> 239

<211> 153

<212> DNA

<213> Homo sapiens

<400> 239

```

ccacaataaa gtttacttgt aaaatttttag aggccattac tccaattatg ttgcacgtac 60
actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgac 120
ccggagtctc tgggtgtacc tcttaccagt cag 153

```

<210> 240

<211> 382

<212> DNA

<213> Homo sapiens

<400> 240

```

aaaaaaacca tctaaaagtg gtttttttaat atatataattt tttccaaagg aagaaatttc 60
ttgctttttac tcagggaata aaaaaaatta aggtacattt gagtagaatg atttcatcta 120
aaagagttct ttcaggagac atctgtgatt cactgcattg tttttatttt cttctttttc 180
ctcttctttt ccaacatttc taccattttc ctcttcttgg ttgatatcag gccactttct 240
tttgttgctt tcttactgtc acctgttaaa ccgcgtttct ttgtgttagg ttttgaccgc 300
ttttcttctt tgtgcactgt gtcaccaggc tcctttttgc caattttgga ctgttcttta 360
cttacaggag aaggctctgc ag 382

```

<210> 241

<211> 400

<212> DNA

<213> Homo sapiens

<400> 241

```

ggcatgagcc accgcgcccg gccctatctt ttactttttat aaatagagat gaagtttcac 60
catgttgccc aggtggtat cgagctcctg ggctcaagcg atcccccaac cttggccttc 120

```

```

caaagtgctg ggattacaag cgcgagccac cgaaattatt cttactagc aagactaggc 180
tctgacatca catccttata gttacatccc ttttaagcagg gttcagccac tcactctgca 240
cctggagaac ttgatgggta tccctcgaag tgacagtcct gcaaatagaca aaaacactcc 300
aaatctatta gggttggtgca aaagtaatta cgctttttgc cactgaaagt aagtcccaca 360
ggaccctgag ggaaatggga ggggtggggta tacatagcag 400

```

```

<210> 242
<211> 75
<212> DNA
<213> Homo sapiens

```

```

<400> 242
actcacatat gcagacctga cactcaagag tggctagcta cacagagtcc atctaatttt 60
tgcaacttcc tgtgg 75

```

```

<210> 243
<211> 192
<212> DNA
<213> Homo sapiens

```

```

<400> 243
gctccacatt tgtagcgaac actttgactc caaagagaag gaggaagaca aagacaagaa 60
ggaaaagaaa gacaaggaca agaaggaagc ccctgctgac atgggagcac atcagggagt 120
ggctgttctg gggattgccc ttattgctat gggggaggag attggtgcag agatggcatt 180
acgaaccttt gg 192

```

```

<210> 244
<211> 616
<212> DNA
<213> Homo sapiens

```

```

<400> 244
aatttttatag caatatactg accatttctaa aaataacaaa atacatgttg ctctcaacta 60
catagttaaa aaaggtagta aatttctctta cccaaaatag aggaggggtg ggctagtgag 120
ctgctcaaac atttgtaaca aataaaaatg tatctatata catataatga tcatgttttc 180
atagcctaaa atcaccatac aaaatctaat aataaaaattg tgtcgtgttc aggagttggg 240
aagccaacac attaaattaa caaagtatgt ttggtatatg taaataatgg gatagaatct 300
ctcgaatcag gattgtccca gaagttctaa ggcagatgtc aatgacatgc acattgtcca 360
tggttcagtaa ttttcaaaga ctagaataaa ctatgtaaac tattcaatac aattcaatat 420
tacttaactg ctaaaaagta cttcaagatc ttgcactgcc ttgagtgagt ataatacaat 480
tagtaattgg aaaatagctg taatagcagg cactgaagaa ttctgacaaa taccataata 540
ctgtttgttt ttaccataa aactggtaag atgatatac aaagggtttt aagttatttt 600
gctatacaag gttttt 616

```

```

<210> 245
<211> 165
<212> DNA
<213> Homo sapiens

```

```

<400> 245
ttggaacagt ggattaaaat ccagaagggg aggggtcatg aagaagaaac caggggagta 60
atttcttacc aaacattacc aagaaatatg ccaagtcaca gagcccagat tatggcccgc 120
taccctgaag gttatagaac actcccaaga aacagcaaga caagg 165

```

<210> 246
 <211> 229
 <212> DNA
 <213> Homo sapiens

<400> 246
 tgtactggat ccctccaggt gggggcgact ctcacctgac tattacaata gcctcctaag 60
 tgggtttccct acttgcaacc ttgcccgtat aatatctatc ctccacacag caggcagggc 120
 gatccttttaa gaatagaagt tagatcatga aaatgctctg ctctgatccc tgcaaaagct 180
 cgccacctcc ttacagtcac cgctgaactc gtagcagagg ttcaggagg 229

<210> 247
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 67, 206, 244
 <223> n = A,T,C or G

<400> 247
 ggaaaccgtg tgtacttata ctggatgatg ccaccagtgc cctggatgca aacagccagt 60
 tacaggngga gcagctcttg tacgaaagcc ctgagcggta ctcccgtca gtgcttctca 120
 tcaccagca cctcagcctg gtggagcagg ctgaccacat cctctttctg gaaggaggcg 180
 ctatccggga ggggggaacc caccancagc tcatggagaa aaaggggtgc tactgggcca 240
 tggngcaggc tcctgcagat gctccagaat gaaagccttc tcagacctgc gcactccatc 300
 tccctccctt ttcttctctc tgtggtggag aaccacag 338

<210> 248
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 248
 tgaaaacaaa tgaattctca actcctacgg ttcatgtaga gtttagagaa aatttccatc 60
 attgtcatca ttgaactgtg aacctgggaa gccagatcat gattaacact gacatcaagt 120
 ttcaagttgc agatcaatgc acccagtgtt cagatgaggc aaacttctcc gtgacaa 177

<210> 249
 <211> 263
 <212> DNA
 <213> Homo sapiens

<400> 249
 aaagtaatga ctttattaat aaatatacat ccatatgatg atgtagatac aaatcatgaa 60
 cactactcca ttcccataca cataattgca cagcagtagc tcaagttcat ggacataaaa 120
 acatacacag tatctattca gactttttac agcagaggac agcgtgctta ttatcagtta 180
 attggtaatt attttctcca aaattacctg tggaaaaaag aaattctgaa aacttaaaaag 240
 aatcaaagtg atctgattac ttt 263

<210> 250
 <211> 333
 <212> DNA

<213> Homo sapiens

<400> 250

```

aaaaaaaaaca acagcgtaaa tattagccca caagagcagt cctaaacaat cacaattaca 60
ctgtactacc caagaagact gtttattgtg aagcatttac ctttcaaaaa atcattacat 120
ttctatctct tgggtggagca gcacattgtg gagtgtgatt cttaattctt cattgagttt 180
gtcaatagga cattgatgct ggatagggtg tcttttgttt ttatgcctca gaccatcttg 240
tgagattgtt tgcctatctc ataatacagt tttatgcaga aagggtgaaa ctatgtaaata 300
ggtttttatg gaaattatca gttacaatat ttt                                     333

```

<210> 251

<211> 384

<212> DNA

<213> Homo sapiens

<400> 251

```

aaaccatttg tacaaaactt ctataaattt ttctctctct ttctctctta tgtacaaaaa 60
tatcttaata tatccccgaa ctgggttagga tagatacaaa tagatttttt ataataaaaa 120
attcacaaaa gattggaagc attctataat gaaaatggta gaaaagacag tgtgagggaa 180
gccatggggg ttgggaatcg ggccctggag gagaagcaga gtttcaaagg gctgagaata 240
gcatagtttc actgtaaacc aatgtctaca gcttattggg gtgggggcta ctgagacgaa 300
agacaccaac tcgtttctag agggctaaga actgcacttt aagaaagggc ggggaggtga 360
agggacccga gcaagaactt tcag                                     384

```

<210> 252

<211> 211

<212> DNA

<213> Homo sapiens

<400> 252

```

aaagcagtct gaaaatggga catctgtaga gaaattcatt tccttcttct cctccggatg 60
tggaatggaa gctttgaggg aaggaaaagt aggaaaagag cgggatggga tgggatggga 120
tgggatggga tgggatagga agagaggctg gggaatgggc agagaagggg gtgctgagtg 180
tgctgtgaga tagagcaaga tcacaagaag g                                     211

```

<210> 253

<211> 135

<212> DNA

<213> Homo sapiens

<400> 253

```

aaaaattggt tcttgacaag ctgacttggc acttaagtgc acttttttat gaagaaaaag 60
tacaatgaac tgcttttctt caagcaataa ttgtttccaa cttgtctggg aattgtgtgt 120
ctggtaactg gaagg                                     135

```

<210> 254

<211> 361

<212> DNA

<213> Homo sapiens

<400> 254

```

cctgtagccc ctgctacacg ggaggctgaa gtgggaggat cacttgaacc aatgagggtg 60
aggttacagt gagcccagat catgccacta ctctacaggc tgggtgataa gagtgagacc 120
ctgtatcaaa aaaaagacaa ggaaaaaaaa aactgggccg tttgtttttg cagaatgtct 180

```

ctcaatttgg acttttttggg caggaatata atacaagtga tacaaatgct tctttaacat 240
 tagaacctgt ataaaattac cattacagac cttgctattt tacttatagg taaatcactg 300
 tttaaccaagg taagtctttt gggaatttcc aaaaatgaag tccatggaca gttaaaaact 360
 g 361

<210> 255
 <211> 331
 <212> DNA
 <213> Homo sapiens

<400> 255
 aaaaaaataa ataatccacc aacgtgattg accttggcga gatcatgttt ctagtctata 60
 cctcagtttc cccatctgta aagtgaggat aatgtcccac cccatgtaac tgtggtgagg 120
 accaactgca acactgtgcc tgcgagtctc cttggaaaag tgtaagggtc tacacaaatg 180
 gaaagtgatc tgatcacact cagtgtcccc agcccagcct ttcagtgtcc tggtccctggg 240
 gtggggggaca atactctcct caccctcttc actagtcttc atgaatagca aggaggccat 300
 aacataattt ggtctaaacc ccttcctttt t 331

<210> 256
 <211> 186
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 115
 <223> n = A,T,C or G

<400> 256
 cctttggggc cttgcacttt gacctgcaat ggggccacac cagccttgct tgtgtccacc 60
 tggaaggact gagggagggt ggcacgaacc atgcctgggc tcaggccggg cccanagcac 120
 ttgaccttgg acgcactctg cacatcatgc acagggacct tgaaaggact gcctggcact 180
 tgatgg 186

<210> 257
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 257
 ctgggggtccg tcaccgacct ttgggggaact gggctacggg gaccacaagc ccaagtcttc 60
 cactgcagcc caggaggtaa agactctgga tggcattttc tcagagcagg tcgccatggg 120
 ctactcacac tccttgggtga tagcaagaga tgaaagtgag actgagaaag agaagatcaa 180
 gaaactgcca gaatacaacc cccgaaccct ctgatgctcc cagagactcc tccgactcca 240
 cacctctcgc ggcag 255

<210> 258
 <211> 604
 <212> DNA
 <213> Homo sapiens

<400> 258
 ctgaatttgc aatggagttt ggtggtgcaa tcggtattga ttagtttggc atagacagat 60
 gcagcagttt agagcaaaaat cgagaaaatg attttttttt tcctcettga tttcctggca 120


```

gaagatatct tactttttca gcaaactttt cttttaacac taaagcagcc tagggcaatg 180
ccagatactt agagcttttc tcttgattat aagtagaaat ggggggtgtct gggctagagg 240
tggaggggtgg atgtgctgtc gtcacagtct agctggcagc aagcaaggca aaagcagaga 300
ctgctctaga agcggttcca agcagcagag acgtcaggaa aggcacttct tagtaccaac 360
ctctatgctt taatagttgc ttgttaagct gcttcatggg ttgagacaaa ctaccagcac 420
ttcaaagagc tcagttctct gctcaactct cttctctagt tacattatth tttttccttc 480
aggagactga ggcaggaaaa tcgcttgaac tcaggagggtc gaggccgcag tgagccaaga 540
tcacaccacc gcactccagc ctgggccttg caaagtgcta ggattacagg aatgagccac 600
cagg                                         604

```

<210> 259

<211> 429

<212> DNA

<213> Homo sapiens

<400> 259

```

aaaaatgtct gtatcgagat cttccagttt gaagtcttcc tcctctgtgt cttcccaagg 60
ctctgtggca agctccactg gttctccgc ttccatcaga accactgact tccacaatcc 120
tggctatccc aagtacctgg gcacccccca cctggaactg tacttgagtg actcacttag 180
aaacttgaac aaagagcggc aattccactt cgctgggtatc aggtcccggc tcaaccacat 240
gctggctatg ctgtcaagga gaacactctt tactgaaaac caccttggcc ttcatctctg 300
caatttcagc agagttaatt tgcttgctgt tagagatgta gcactttatc cttcctatca 360
gtaactgctc cgtgttcaga ctccctggttt cttccaggct tacagtggac atcatcagct 420
tcctgcttt                                     429

```

<210> 260

<211> 385

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 179, 318

<223> n = A,T,C or G

<400> 260

```

ctgcaacaca tgcagcacca gtctcagcct tctcctcggc agcactcccc tgtcgccctct 60
cagataacat ccccatccc tgccatcggg agccccccagc cagcctctca gcagcaccag 120
tcgcaaatac agtctcagac acagactcaa gtattatcgc aggtcagtat tttctgaana 180
cgcataatggc agacggattt gcgtatacca aggagagtgg cataggaggg aaaagcatat 240
gtggctgaaa cctgtaagtt ggtgttggtt atgcagaaat gtgtaacaga tcaaacggtc 300
ctctcaagtg tctattanat aggcaataag aactgcagtg tagctgagta acatctttta 360
gctgactata aatcactttg ttttt                                     385

```

<210> 261

<211> 230

<212> DNA

<213> Homo sapiens

<400> 261

```

ctgtactgga tccctccagg tgggggagac tctcacctga ctattacaat agcctcctaa 60
gtggtttccc tacttgcaac cttgcccgtg taatatctat cctccacaca gcaggcaggg 120
cgatccttta agaatagaag ttagatcatg aaaatgctct gctctgatcc ctgcaaaagc 180
tcgccacctc cttacagtca ccgctgaact cgtagcagag gttcaggagg 230

```

<210> 262
 <211> 198
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 88
 <223> n = A,T,C or G

<400> 262
 atgttaagta aacatgaaat ctatataaca gaacaaaaat tcactcttat gtcaatgtca 60
 gcgtgttaat gtagatctat ttactganac agactctgta gtggcagaga gtggccttgt 120
 taagccagga ccctgttctg caggctgtgg gtagaagcta ggaagtcctt ggagtttcac 180
 ccagcttttc catgaatg 198

<210> 263
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 263
 aaaatatatt tctaaacaga atgggccgac tcagtcacag taactgttga tctccatagt 60
 agagcaaccc acaaagacag aactgatttt tttcccataa tcaggggtga aaaatataca 120
 acttgtttct gaaccaaaac cacaatttct gcagttt 157

<210> 264
 <211> 290
 <212> DNA
 <213> Homo sapiens

<400> 264
 ctggctactc caagaccctg gcatgaggct gaggacaact tacaagggct tcaccgaagc 60
 agtggacctt tattttgacc acctgatgtc caggggtgggt ccactccagt acaagcgtgg 120
 gggacctatc attgccgtgc aggtggagaa tgaatatggt tcctataata aagaccccgc 180
 atacatgcc tacgtcaaga aggactgga ggaccgtggc attgtggaac tgctcctgac 240
 ttcagacaac aaggatgggc tgagcaaggg gattgtccag ggagtcttgg 290

<210> 265
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 265
 aaaaaaagga aaggaaagag aggaaaagaa aataaaataa gacgatttat tgcttctcct 60
 cagcatcctc cttgggtctcc tccttcaccg agagagcttc tagcttttcc gccacttttt 120
 cggcatgata atttttgcct gatcctttct tttctctctc ttgatctctt ttcttgcat 180
 cttcaaactt tgttttgaat ttctgtgcat tctcagcatt caggaagcgg atgg 234

<210> 266
 <211> 335
 <212> DNA
 <213> Homo sapiens

<400> 266

```
gtcctcatca tcccagtttg aggcagtgct ggagtgggga aggccgtctt agaccataga 60
ggttggaaga cgctgagaga tcatccagcc cagccccttg atgttacaga gcagaagaca 120
gatgccc aaa caggagaagg cacttgccca cggtcatacg gcaggttgcc acaaaaccaa 180
gatggcagcc ctccctcagc gtgcctcact gccactccca gagccaggga gcccataaaa 240
acccacatca tgtcttaaga gtatatctgg ctccctgacc agcaatcggc cctgggagcc 300
accagggtggg aaaagcgcct ctgccagagt ccagg 335
```

<210> 267

<211> 619

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 69, 86, 119, 205, 352, 547, 580, 611

<223> n = A,T,C or G

<400> 267

```
tggagctctg acgaagggat cggggagggtg ctggagaagg aagactgcat gcaggccctg 60
agcggccana tcttcatggg catgngtcc tcccagtacc aggcccggtt ggacatcgng 120
cgcctcattg atgggcttgt caacgcctgc atccgctttg tctacttctc tttggaggat 180
gagctcaaaa gcaaggtggt tgcanaaaaa atgggccttg agacaggctg gaactgccac 240
atctccctca caccaatgg tgacatgcct ggctccgaga tccccccctc cagccccagc 300
cacgcaggct ccctgcatga tgacctgaat cagggtgtccc gagatgatgc anaagggtc 360
ctcctcatgg aggaggagg ccactcggac ctcatcagct tccagcctac ggacagcgac 420
atccccagct tcctggagga ctccaaccgg gccaaagctgc cccgggggtat ccaccaagtg 480
cggccccacc tgcagaacat tgacaacgtg cccctgctag tgcccccttt caccgactgc 540
acccanaga ccatgtgtga gatgataaag atcatgcaan agtacgggga ggtgacctgc 600
tgcttgggca nctctgcc 619
```

<210> 268

<211> 147

<212> DNA

<213> Homo sapiens

<400> 268

```
cctataaccc agacaccagc atggacaaaa ctcaagttata ctgaattcag agacaaaatt 60
cagtgacact cttctaccac ttatttaggg ttctacagca tttcactgag cagacttagt 120
tttttgtttt tgttttacia acctttt 147
```

<210> 269

<211> 325

<212> DNA

<213> Homo sapiens

<400> 269

```
ctgagctgta ggaatggggt cttgggtacac aagatagtat tgttgagcta gttttcagac 60
tctgtgcaca agcactctgt aatcgggggc catgccactg tacaccaaac ctatatgctt 120
ggtaattggg tctactttgt gtacacttcg ctcatcatac agaattggatt tctgtttttt 180
ctcagttgct aataccacac catttgagc tttaattccc acggacgggg ctctccagc 240
tacagcagcc aaagcatatt caatctggac aagtttacca gacgggctga atgtagtcag 300
cgaaaagctg taccgcgcct ccgcc 325
```

<210> 270
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 270
 aaacatatgg taaattaccg agtgacacct ctgggctaga gacctctttt gaggggagtt 60
 tgcaaactac ggattcaatt tctttaacag ttatgaagtt ctttaaagaa cctgttttgt 120
 attggggggg tgtgggcacc tgtgcttttc tgagatttgg cccctacatc taagttgttg 180
 aatgcatgtg tgtagagttg tttatggtgc ttccctttct tcttagaagg gtctatagta 240
 atatcccctg ccttatccct agtagtacta atttgtgttt tcttacttct tgacaggcaa 300
 acacatcaga gcataagtgg ttccctaatgc caagctgacc tcccttgatc tctgtcttct 360
 acaggatatt gacatgggac ttctttatta ccttttcagt tcactgatac cttcaaatag 420
 ctttattt 428

<210> 271
 <211> 206
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 18, 21, 33, 118, 180
 <223> n = A,T,C or G

<400> 271
 cgtcccggag cccacggngg ncatggctgg canagcgctc tgcattgctgg ggctggctct 60
 ggctttgctg tcttccagct ctgctgagga gtacgtgggc ctgtctgcaa accagtnggc 120
 cgtgccagcc aaggacaggg tggactgcgg ctacccccat gtcacccccca aggagtgcac 180
 caaccggggc tgctgctttg actcca 206

<210> 272
 <211> 83
 <212> DNA
 <213> Homo sapiens

<400> 272
 ctggcttccc tgagaactca acaatgcctt ttcctgaggg ccttctctga tcatccacaa 60
 tgactacagc cctctctacc tgg 83

<210> 273
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 273
 ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccagggt gtctttctac 60
 tcgggacact cttccttttg gatgtactgc atggtgttct tggcgtgta tgtgcaggca 120
 cgactctgtt ggaagtgggc acggctgctg cgaccacag tccagttctt cctggtggcc 180
 tttgccctct acgtgggcta caccgcgctg tctgattaca aacaccactg gagcgatgtc 240
 cttgttggcc tcttgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
 agcctgtcac tgacgttgac cctgggagag gctgaccaca accactatgg ataccgcac 420

tcctcctcct gaggccggac cccgcccagg caggagctg ctgtgagtcc ag 472

<210> 274
 <211> 205
 <212> DNA
 <213> Homo sapiens

<400> 274
 ccaggcggcc cgaggactta cggtcggcac ttctctgttc tcccgtgtca gcgtgtggtg 60
 tcgcctgcat gggtcgtacc tggatgggtgt gtccaccatc gacacggagg ggctggattt 120
 gtttctcagg caatcctgta ttttaatttt agatgtattt cctgaagcat atttttcata 180
 gaatgtagcg tgtaaatagc ttttt 205

<210> 275
 <211> 308
 <212> DNA
 <213> Homo sapiens

<400> 275
 ctctcgcgcc tccccaccga catcatgctc cagttccagc ttggattttac actgggcaac 60
 gtgggttgaa tgtatctggc tcagaactat gatataccaa acctggctaa aaaacttgaa 120
 gaaattaaaa aggacttgga tgccaagaag aaacccccta gtgcatgaga ctgcctccag 180
 cactgccttc aggatatact gattctactg ctcttgaggg cctcgtttac tatctgaacc 240
 aaaagctttt gttttcgtct ccagcctcag cacttctctt ctttgctaga ccctgtgttt 300
 tttgcttt 308

<210> 276
 <211> 201
 <212> DNA
 <213> Homo sapiens

<400> 276
 aaattaactt tttcttgcaa aatattcatt tcattttttc caagaaaatc ttataaaggc 60
 aaaaataaaa ttttattttg gcaaatgtca tgaagtcgat actggcagca tatggagtta 120
 gttaaaaata gacaacaact gctagatata ttcaaaattc tatttttttt tctgagcata 180
 gtcaaagaga aatttttcatt t 201

<210> 277
 <211> 520
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32
 <223> n = A,T,C or G

<400> 277
 aaaaaaaaaag tattcagcac catttgctca tnggtctttc agagtttggt cttaaagttt 60
 ctggaacttt cctgtctgta aagtaacagg aattactgag ctacattgga aagcctctct 120
 gggacaggca gtggggaggt aagcagtcac cataaaggaa tcagtgtaca ttcagcatgg 180
 tgacttgact acacaacaat cccttcccct ctactgtagc tcaagagaga catgcttcta 240
 accactgagg tatgaggagt ctcagactgt tatttgctgt tagaattggc cttcccagct 300
 aataacagta catctctggc acagatgcta ttggtcctta atgtcctgtg attttaggaa 360

```

atagtttggg tttagttcaa tttattcaga aaccaaacgt gtttaattag cttcactact 420
ctggcagagt aagggatatgc tggtttagta tctttataaa atatatataa tgtataggta 480
aatcatagtc ttaaatacata cctaaaatac tgtatcattt 520

```

```

<210> 278
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<400> 278
cgcgccgggc ggaactttcc agaacgctcg gtgagaggcg gaggagcggg aactaccccg 60
gctgcgcaaa gctcggcgct ccttcccgtt ccctcacaca ccggcctcag cccgcaccgg 120
cagtagaaga tgggtgaaaga aacaacttac tacgatgttt tgggggtcaa acccaatgct 180
actcaggaag aattgaaaaa ggcttatagg aaactggcct tgaagtacca tcctgataag 240
aaccctaatg aaggagagaa gttt 264

```

```

<210> 279
<211> 414
<212> DNA
<213> Homo sapiens

```

```

<400> 279
aaacatacaa taatttttat tatggaaatt aatctttaca tacaaaatca gctacgtaat 60
tttacttaca aaacaataaa aactgttctt tactgtggca acaaaagaag catthttgaca 120
aatgaaaaaa attaatacaa acaaattaaa acaatgcttt tctttttact tgcttcactg 180
tctcttctat ttattttcta tgatcatttg acacaaacat ggattacttt gatattctact 240
gaaacataaa tgataagggt cttaaagggt gaattaaaag tctgggtgtt caatatttta 300
gaagctgaat aaacaaaacg aaattggggg ttgtgattac agaggattta tcattttttc 360
cctttgtcca tatgaaaata tataatagaa aattaccacac gggaaaacat tttt 414

```

```

<210> 280
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<400> 280
ccaccatgcc tggcctgctt caattttttg atgccacttt gtaaacggca cttaattatg 60
gaaaatagga aaaagcaaaa ctaaaataag gaagaggata tatatataac ttttcacaat 120
ctcttttctg atccccttta gatgccagct caaccaggac cacacacaga tttcatttta 180
tttgtagagt atatgaaaag atttaatagt ctcattgcatt ttatttttacg tatactgatt 240
tctacgtttt gactgactat tt 262

```

```

<210> 281
<211> 349
<212> DNA
<213> Homo sapiens

```

```

<400> 281
ctgtgacccg ggtgcatcag tggatatagt tgtgtctccc catggggggt taacagtctc 60
tgcccaagac cgtttttctga taatggctgc agaatggaa cagtcattct gcacaggccc 120
agcagaatta actcagtttt ggaaagaagt tcccagaaac aaagtgatgg aacatagggt 180
aagatgccat actgttgaaa gcagtaaacc aaacactctt acgttaaaag acaatgcttt 240
caatatgtca gataaaacca gtgaagatat atgtctacaa ctcagtcgtt tactagaaag 300
caataggaag cttgaagacc aagttcagcg ttgtatctgg ttccagcag 349

```

<210> 282
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 209
 <223> n = A,T,C or G

<400> 282
 aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60
 ggaaacaaaag tttcaaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc 120
 tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttcccact 180
 cactttgcaa ggaccactc attctgcana aagacctaca agtctttctg gtctcaattg 240
 caaagtaagt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300
 gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360
 atttttattt cagatgtatt t 381

<210> 283
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 283
 aatatagctc ctccctaccc ccaacaatgg accctgcccc ttgcctccca gttccttgat 60
 cttcctaggt tccacaactc tctttttcct tttagtttta ttccctccag ccaaacctct 120
 cttattcaat attttgagcc aatgggggag ttatgtagat ttttttccct acacattagc 180
 tggccccctt tatgaccaat gactcataag gcaagatgtg tgggtggcatc ttcggacagg 240
 cagcaggctt taatagggca gcctgggttg gtggaggcaa gcaaagctaa ttggcatgag 300
 tgggaatcaa accccaggcc ctgggctcat tagcccatgg tcaaaacaac tgagccagag 360
 gaggtaataa tttgcccaag aatatcagta gttcctttat tagaagaaaa tggctgatat 420
 ggaagtggg gaatctgaat tgccagagaa tcttggggaag agtaataagc tcttagtctc 480
 aacaaaaagt gttttttcat ctccagcgcgt aaagggtgct atatgggaac aaagaagtat 540
 ttt 543

<210> 284
 <211> 147
 <212> DNA
 <213> Homo sapiens

<400> 284
 aaactggtat tttatctttg attctccttc agccctcacc cctggttctc atctttcttg 60
 atcaacatct tttcttgctt ctgtcccctt ctctcatctc ttagctcccc tccaacctgg 120
 ggggcagtggt tgtggagaag ccacagg 147

<210> 285
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 285
 cggccgaggt ctggcttcac tcctactccc tctctgctcg cagcacgtcg gccgccagct 60


```

ctttgatgtg ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg 120
caaagcgcag gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac 180
tgtttattct ttgcagaaga gcttcattca ctttgttgga accctttagc cgaaagcaga 240
caagccccag aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact 300
caaactcatg ggacag                                     316

```

<210> 286

<211> 322

<212> DNA

<213> Homo sapiens

<400> 286

```

cctgggggagc ccttttagtg ggtgggacct caggcagacc cccaaaccaa agggagccag 60
atgcccaagt tcaagtcatt agtgatatgt ggcagggctg acagagaaat aatcctggag 120
gtctccaaag ctgctgggaa tggaatggcg atgaaaagcg caggagtggg cagggtgtgg 180
tgggtgatgg tggcctcact cagagtggac caaggcccca gctccttgcc caaaaccaa 240
gcccttgggc ccgaagtttt tagcataaca tcctttgcag taaatctcgc catccttgtc 300
tgccaggggtg gttgactcaa gg                                     322

```

<210> 287

<211> 364

<212> DNA

<213> Homo sapiens

<400> 287

```

ctgcccacgc tcaaaccaat tctggctgat atcgagtacc tgcaggacca gcacctcctg 60
ctcacagtca agtccatgga tggctatgaa tcctatgggg agtgtgtggt tgcactcaaa 120
tccatgatcg gcagcacggc ccaacagttc ctgaccttcc tatcccaccg tggcgaggag 180
acaggcaata tcagaggctc catgaagggt cgggtgcccc cggagcgcct gggcacccgt 240
gagcggctct acgagtggat cagcattgat aaggatgagg caggagcaaa gagcaaagcc 300
ccctctgtgt cccgagggag ccaggagccc aggtcagggg gccgcaagcc agccttcaca 360
gagg                                     364

```

<210> 288

<211> 261

<212> DNA

<213> Homo sapiens

<400> 288

```

aaaattataa ctactcattc tttctttagc cttagttaat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccatttacag ttgtaggttt gtaatgtata attatgtaat gcagaaacta 180
gctttgactt gtgtaacgat gcaactgtca agtaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g                                     261

```

<210> 289

<211> 261

<212> DNA

<213> Homo sapiens

<400> 289

```

ctgagtgtta aattctggga atgtggaatt tcaattctta ctttgcttac tttgacagtg 60
catcgttaca caagtcaaag ctagtttctg cattacataa ttatacatta caaacctaca 120
actgtaaagt gtagtagtgt ggaaacttgg gaagaggagt taatgtggat ttctgccaat 180

```

tctaaattta ttgtggtttg cttgttgtgg cttctgctca aattaactaa ggctaaagaa 240
agaatgagta gttataattt t 261

<210> 290
<211> 92
<212> DNA
<213> Homo sapiens

<400> 290
ccactacccg aacttacagg tgccaaaaga agaaagggtg taaacggaga ccacctatca 60
ctcatcagaa cctaggatca tcacattcct tt 92

<210> 291
<211> 287
<212> DNA
<213> Homo sapiens

<400> 291
ccatggctcc gctcagggcc ccggtcacct ccgagtcact ctgttccttg actgtctttg 60
tgtttctgta cctcaaggca ctgaagctgg aggactctgt ccatgcctgt gtcaccctcg 120
tgtgggagcc tctgggctcg gcaggtccac atttcatgag ctgaggcgtg ggccagggcc 180
atctggaaag ggaactcggc ttttccagaa cgtgggtgat catctgtcgg gtgtgtgggtg 240
aacacgttca gttcatcagg gcctacgctc cgggaagggg cccccag 287

<210> 292
<211> 270
<212> DNA
<213> Homo sapiens

<400> 292
ccattgtttc ctgctggcg aaggctcctt gaacatccct caccttcctc tcccgctct 60
gccttctgct ggggtcaaagg tggccttttc tctccagcct tgaattgttc cctgttggct 120
tccaagggc ccatctgctg gtacagtcca cacttccaca gccaagacc gagagggctt 180
tactgccc aagcctctct cctgtgacct tgggattctg tcttggcaga atcctttgtc 240
agcggctctt actctgtcct tctgttttg 270

<210> 293
<211> 333
<212> DNA
<213> Homo sapiens

<400> 293
ccatgctcgt caacctgggtg tccactgctt gctacgtctc cttcctcttc ctgggctgcg 60
aactggccc tgtggctggg gttactgttc cctatggaaa cagcacagca cctggctcag 120
ccctggacc ctactgccc tgcaataata actgtgaatg ccaaaccgat tccttcactc 180
cagtgtgtgg ggcagatggc atcacctacc tgtctgcctg ctttgcctgg tgcaacagca 240
cgaatctcac gggctgtgcg tgccctacca ccgtccctgc tgagaacgca accgtgggtc 300
ctggaaaatg cccagtcct gggtgccaag agg 333

<210> 294
<211> 123
<212> DNA
<213> Homo sapiens

<400> 294

```

ctgatacaaa tacagaaaac tctgcccatt atccaagaaa caaataatta agactaaaat 60
gcaagctgat gtgttgcagc attgtagggc cactaaatag ccatctgtga ttcgtggcaa 120
ttt                                             123

```

<210> 295

<211> 311

<212> DNA

<213> Homo sapiens

<400> 295

```

ctgcatacag acatttgttt aggtcatctg gattatcttg attgtcacca tggcaactat 60
ccacaaccag tgcctagggtg tgtgagaaga gtgatacaat aatactgtgg catggtcatt 120
tagctaatacc agtctaagcc taacagaaaac cttttccatc aaagtttttc agagaataac 180
aacatctcat aagaggccag aggatggctt gtgcttaata tcacacctgt acagtagggc 240
agtgttccc aggtgtctg cttacatttt agcttgtctt acggttacat atgggttttag 300
tattttcatt t                                             311

```

<210> 296

<211> 241

<212> DNA

<213> Homo sapiens

<400> 296

```

ctgcggaaga tctgcaacca cccctacatg ttccagcaca tcgaggagtc cttttccgag 60
cacttgggggt tcaactggcgg cattgtccaa gggctggacc tgtaccgagc ctcgggtaaa 120
tttgagcttc ttgatagaat tcttcccaaa ctccgagcaa ccaaccacaa agtgctgctg 180
ttctgccaaa tgacctccct catgaccatc atggaagatt actttgcgta tcgcggcctt 240
a                                             241

```

<210> 297

<211> 295

<212> DNA

<213> Homo sapiens

<400> 297

```

aaacacaaga tgaaaatact ctgttctgtc caaagcatca cctaattggtg tgaggcatct 60
cacttagctg tggagaagtc cttggaatta gatctcagaa agacagcttt aagacagtaa 120
aaccttttgg caatgggcta attgccttaa aagaagagtt ctacctgaaa gaccttgcag 180
gtggagaaat tgctctacaa agattcttgg atatgttagt ggagataact gacatgggta 240
gctgtgggtc aaccaggaac tgtcaacaac ctgatctctg caaaaccagg atgga      295

```

<210> 298

<211> 347

<212> DNA

<213> Homo sapiens

<400> 298

```

ccaaaataaa gcttcaggca agaggcaaag atccagtgga atatgggaga atgggtggagg 60
accaacacct gctaccccag agagcttttc taaaaaaagc aagaaagcag tcatgagtgg 120
tattcacct gcagaagaca cggaagggtac tgagttagag ccagagggac ttccagaagt 180
tgtaaagaaa gggtttgctg acatcccgac aggaaagact agcccatata tcctgcgaag 240
aacaaccatg gcaactcgga ccagcccccg cctggctgca cagaagttag cgctatcccc 300
actgagtctc ggcaaagaaa atcttgca ga gtcctccaaa ccaacag      347

```

<210> 299
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 299
 aaaaagtaaa catgaaaaca tcacgaattg taccatgatt caagaataac ttttgtaata 60
 gaaaacacat gaccttttgc agtatagtgt gataccgaag taaaagtgaag agaaataaat 120
 gcaggaaagt ttaagtggat gtaagttttt ataaggaaaag taataagagg aggctgcttt 180
 tgaaggctct ttgatcttcc atgatgataa tatcgttgca aagttcttta acttgtattc 240
 aagtaattag cagttgacca cttgggtt 268

<210> 300
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 300
 aaattggaga aggaagtttt cctgaagagc cagaatcctt gctaagtcatt ttagatccaa 60
 ctgaccatct ttatttctgt caaaaatctt catcatgggtg ccggtgtatt cttccagttt 120
 agcctcagaa atggcctttc tgtgggtgaag aaagagggtc cggaggaagt tgcggagctc 180
 agcag 185

<210> 301
 <211> 75
 <212> DNA
 <213> Homo sapiens

<400> 301
 aaaattggaa agtgggataa gaaatctaaa gtaaccagct tatctttgaa acaatattat 60
 tttgaaattg gcttt 75

<210> 302
 <211> 247
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 159, 188, 212
 <223> n = A,T,C or G

<400> 302
 ccatgttctc tgaattgggt gcagaagaca agggcagagt ggctgcggcc cctattacct 60
 ttgtagcagc cacatcagaa agcagaagaa aacagtattt ctgaaggcat tgtttgaggt 120
 tgatctcagc actgaacgat ttcaagccct acgcaccana acagaaggag ggtggaggaa 180
 gtgatcanag ggaacgagct gtaggtttgc anaaatgtgt gaaacaaaaa tgatcactgc 240
 ctacttg 247

<210> 303
 <211> 535
 <212> DNA
 <213> Homo sapiens

<400> 303

```

ctgcttcaga ggaaatcact gaaaaataaa gaaaaaaccat ccatgcatgg ctgcatccag 60
tgtacctgta atcctgaaga aaagggtccta attccttcca tgctgaaatg ctagcttttg 120
tttcagagag agactttatt gcaactgtga ccaccgtcac tggtagagcac tgctgttcgg 180
ccccagcgg acttaaaaga ctggaatgtg gtagtggcgg tcgttctcgg tcagcaggga 240
gatctccggc cagtccttga gaggtcctc tgggtagcag acttcaaagt ctctggagtt 300
aaacttgaac agtctgaaca cttttatctt tacttcaagg gagtatccaa gtataaacat 360
atcaatctgc tctagtccac atgtgtcgcc tacagaattc aggtgattca tcatgaagct 420
caaaggatca gaggatgtct ccctggaaaa caggagtcta aaaagactgg gaatgacctt 480
tttagtcttc atttgttcat aaacttcagt gacttgatac agcatgatga acttt      535

```

<210> 304

<211> 522

<212> DNA

<213> Homo sapiens

<400> 304

```

ccgcgctcgg tctacaatca cgttttatta ttggctcgtc tagtcatggg atagagaagg 60
taaataagcaa aatagaaaga aaagggggaa aaggtagaag gcaaggggaa aactattggg 120
tttagatctt tctcctgggc ctgtcaatga tcaggtaatt ggaaggatca aaattaggcc 180
aaacttggta attgggccaa aattgaacca aagtttgtgt caagaagacc tggggcagag 240
atatgtgact aaatcatttg gaatatgcc agaccccaag aatatttatg cccaacttga 300
atgctaacca gaagtccctt actgtagaag attgtaagg tgcatttttt ttgccccgac 360
acaaaaatat tgatgtatct tccaacacca attctccaat tctctgacac caactcgatg 420
ttcaacaatt cagttatatt ctgtcactaa ttcctgcagc tatcagcagg cccacaggt 480
aaaggattca gtctcacaag attgcccccc caccacttc ag      522

```

<210> 305

<211> 165

<212> DNA

<213> Homo sapiens

<400> 305

```

cctaaagcgc tcctcgttga agctcaaggg gtccacaatg atttgtttgt caaagttatt 60
gagtgcata ggcagttctc ctctcctcc accctgggtg tgtgaggcat cgtctgaggc 120
agtggcctgg gctgcattgg aaatgcctgt gaccgcctgc tgcag      165

```

<210> 306

<211> 294

<212> DNA

<213> Homo sapiens

<400> 306

```

ctgcacctaa gacatggccc tggctaggcg ggaacagctc acagtagcga tacattcaca 60
ggacacagtt ggtgtccaga aaaggggggt cagaacacag tttctacaca agcacttggc 120
acccacacga cagagacgtc actcaagcag cacagccaca aatagtttac agcagctcat 180
gcccgcatc cgcccatgct gggagactcc ctgaaagggt ggcacctgcc gtctatgagg 240
aggtgtctcc ctccatcatt aaccccaaac cacacaatgt gtgaggagag cagg      294

```

<210> 307

<211> 181

<212> DNA

<213> Homo sapiens

<400> 307

```

aaaaatccat gacaccttga tagaaattag agtttacaca aacaaaaaag gaaccttcga 60
tattgccagc agctataaag tgaacgtact gagaccgaca ggacagcaag aaggcatttg 120
cacatttata tctgacaccc gaccatactt tcagtcacca gaatatcttc tctccagatt 180
t                                                    181

```

<210> 308

<211> 179

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 138

<223> n = A,T,C or G

<400> 308

```

aaggctgagg actgctggga gctcagatca gcccggagct actggctcat gggcagccaa 60
aaaatactgg atctgctgaa cgaaggctca gcccagagatc tccgcagtct tcagcgcatt 120
ggcccgaaga aggcccanct aatcgtgggc tggcggggagc tccacggccc cttcagcca 179

```

<210> 309

<211> 129

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 28

<223> n = A,T,C or G

<400> 309

```

ctgcccgcctt gcccgtagct gactcagntt cctcatcttc atctccatcc tcttcctcac 60
catcaccttc ttcttcctcc tcctcttctc cccaccttc ttcctcttct tcgtctacct 120
cattgtcag                                                    129

```

<210> 310

<211> 390

<212> DNA

<213> Homo sapiens

<400> 310

```

tgaggctggg ggagagccgt ggtccctgag gatggggtcag agctaaactc cttcctggcc 60
tgagagtcag ctctctgccc tgtgtacttc cggggccagg gctgccccta atctctgtag 120
gaaccgtggt atgtctgcat gttgccctt tctcttttcc cctttcctgt cccaccatac 180
gagcacctcc agcctgaaca gaagctctta ctctttccta tttcagtgtt acctgtgtgc 240
ttggtctgtt tgactttacg cccatctcag gacacttccg tagactgttt aggttcccct 300
gtcaaataac agttacccac tcgggtcccag ttttggttgcc ccagaaaggg atgttattat 360
ccttggggggc tcccagggca agggttaagg                                                    390

```

<210> 311

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 127, 131, 154, 156, 192, 204, 227, 242, 271, 274, 297

<223> n = A,T,C or G

<400> 311

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cctctctgtg ctgctgaagg cagatcgctt gttccacacc agctaccact cccaggcagt 60
gcatatccgc ctgttgagaa atgccgtgtc tagattgtgg acaagagcct gcgtgattat 120
gctatangga naaaaattct tcgagttcca cccnancctc tctaaacatt tggctcactc 180
aaaacaaaaa gncaccaatc ttantactgc tgaacttcat ttatgtnacc taacattaac 240
cntcgtagga aaaccaaata gccctctcgt ncangatatg ttgctaaagg actacctgt 300
tcaacacaac ggctccggtg tgtgaactcc tgtttgggtg attcccctac tctca      355
```

<210> 312

<211> 498

<212> DNA

<213> Homo sapiens

<400> 312

```
ccattctttt gaatctaate tattatcaat agcatcctcc ataatatctt tgataaaaagg 60
tgtccaccga gagagctgaa aagtttcttc tgcagaccga tcctttctta acggtttgcc 120
ttgttgagat tggggaacaa tgggaacacc aaggtaactc cagttacgaa tcatgtcact 180
ctcattttct atctttacat tctggatcaa cctgtccaaa ttttcttccg tagttccatt 240
aatactgaag atataaagta gaattgctct tattttatca caattatcat gatttttggt 300
gagtagaact ggaaggagta ctgcgatgga atctttcacc ttctgtcctt ctgcatcagt 360
tccaagtgcc aggtcctgtt cagttttgca gagcttttct atattaagct tgaacttatt 420
catgcaatct tctgctaagt taagatggac aacttgctta gtaatctgtt ttcggaaata 480
gggcatcttt ttcatcag      498
```

<210> 313

<211> 653

<212> DNA

<213> Homo sapiens

<400> 313

```
aaacttatca gatttttttta agttaggtaa tttcaatcca cagtggctcc atatgggttaa 60
aaaaacaaaa acaaaaacgc atttaaggat acacgaagca gtgaaaacaa agccccagta 120
ttttcgctaa agtactggaa atacctgttt ctaaaaacag ctttatattt gtccactgcc 180
tagaatagct ctcacccaaa cctcaaaaat aagagcagat agattttaga agcaagaaaa 240
ggtaaacagt gcccatatta tttgagactg gctctgctgc cctccctaag ccagtttaca 300
ttctttgaga ttcttgaggt gggtagtca gggctgaaga ctgcacaggc catgtcccct 360
gctccaacta ttcctcagaa cgtcccaggt ggagggagtg gcctgtcgat tttcactcat 420
tccatggagc tctgtgtaca tgaaaattcc tccaagtgtg gcttttgtcg aattcagaga 480
tacagcaagc cacgcataaa acatggagtg tagagcactg gtgtacctag cttagaaaca 540
ccctcggtga atgtggtact gtggctcgaa aggaagcaag ggacaggacc caggagactg 600
ggcggccagg ctctcgaggt tccacacaca cctgtgaagc ccggccagca cag      653
```

<210> 314

<211> 513

<212> DNA

<213> Homo sapiens

<400> 314

```

ctggaagatt ttgctgcatt tggcattata ctgtaattta cagtatacaa catctgggga 60
ctcagtacta tcttagcaca gactaacttc tcccactccg tcagagggtgg cagggtggcgg 120
gtcgggtgggg agggcctttt ctccccataa atgcctgaac tttaatttat accatataag 180
aaatcagtga aaggtaaaca acaagggttaa tgtaactcta ttataaattt tgcatttttt 240
ttctctgtga catatacaag tatatttttg tttttggagc tataaattat ttaatttagc 300
aatcttcaaa gctcataaat ttcaactttt caaataagaa attttaactt caaataagaa 360
gtctaggact ttatggctat taattttact atcaaaatat ccaagggact ccattcaatg 420
taatagttat aattcttcta aatatcattt gaataattct ttgtggacgc tagactcaag 480
actatgctac atccaaacag tacatctata acc                                     513

```

<210> 315

<211> 222

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 15

<223> n = A,T,C or G

<400> 315

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atztatattc aaggnatctc aaagaaagca ttttcatttc actgcacatc tagagaaaaa 60
caaaaataga aaattttcta gtccatccta atctgaatgg tgctgtttct atattgggtca 120
ttgccttgca aacaggagct ccacaaaagc caggaagaga gactgcctcc ttggctgaaa 180
gagtcctttc aggaagggtgg actgcattgg tttgatatgt tt                                     222

```

<210> 316

<211> 1633

<212> DNA

<213> Homo sapiens

<400> 316

```

cgtggaggga gctagcgcga ggctggggag cgctgagccg cgcgtcgtgc cctgcgctgc 60
ccagactagc gaacaatata gtccgggatg ctaaagggtga cccaagaaa ccaaaggga 120
agacgtccgc ttatgccttc tttgtgcaga catgcagaga agaacataag aagaaaaacc 180
cagagggtcc tgtcaatttt gcggaatttt ccaagaagtg ctctgagagg tggaagacgg 240
tgtccgggaa agagaaatcc aaatttgatg aaatggcaaa ggcagataaa gtgcgctatg 300
atcgggaaat gaaggattat ggaccagcta agggaggcaa gaagaagaag gatcctaata 360
ctcccaaaaag gccaccgtct ggattcttcc tgttctgttc agaattccgc cccaagatca 420
aatccacaaa ccccggcctc tctattggag acgtggcaaa aaagctgggt gagatgtgga 480
ataattttaa tgacagtga aagcagcctt acatcactaa ggcggcaaa ctgaaggaga 540
agtatgagaa ggatgttgct gactataagt cgaaaggaaa gtttgatggg gcaaagggtc 600
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aggaggagga ggaggaggag gatgaataaa gaaactgttt atctgtctcc ttgtgaatac 720
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attaggttta attacaaaat ttgatcacga tcatattgta gtctctcaaa gtgctctaga 840
aattgtcagt ggtttacatg aagtggccat ggggtgtctg agcaccctga aactgtatca 900
aagttgtaca tatttccaaa cattttttaa atgaaaaggc actctcgtgt tctcctcact 960
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tatctatagt ttgtaaaaag aacaaaacaa ccgagacaaa cccttgatgc tccttgctcg 1140
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gaggctggac ctgttgactc tgcagggggc atccatttag cttcagggtt tcttgtttct 1260

```

```

gtatatagtg acatagcatt ctgctgccat cttagctgtg gacaaagggg ggtcagctgg 1320
catgagaata ttttttttta agtgcggtag tttttaaaact gtttggtttt aaacaaacta 1380
tagaactctt cattgtcagc aaagcaaaga gtcactgcat caatgaaagt tcaagaacct 1440
cctgtactta aacacgattc gcaacgttct gttatttttt ttgtatgttt agaattgctga 1500
aatgtttttg aagttaaata aacagtatta cattttttaga actcttctct actataacag 1560
tcaatttctg actcacagca gtgaacaaac cccactccg ttgtatttgg agactggcct 1620
ccctataaat gtg 1633

```

```

<210> 317
<211> 4235
<212> DNA
<213> Homo sapiens

```

```

<400> 317
gaatccaagg gggccagttc ctgccgtctg ctcttctgcc tcttgatctc cgccaccgtc 60
ttcaggccag gccttggatg gtatactgta aattcagcat atggagatac cattatcata 120
ccttgccgac ttgacgtacc tcagaatctc atgtttggca aatggaaata tgaaaagccc 180
gatggctccc cagtatttat tgccttcaga tcctctacaa agaaaagtgt gcagtacgac 240
gatgtaccag aatacaaaga cagattgaac ctctcagaaa actacacttt gtctatcagt 300
aatgcaagga tcagtgatga aaagagattt gtgtgcatgc tagtaactga ggacaacgtg 360
tttgaggcac ctacaatagt caaggtgttc aagcaaccat ctaaacctga aattgtaagc 420
aaagcactgt ttctcgaaac agagcagcta aaaaagttgg gtgactgcat ttcagaagac 480
agttatccag atggcaatat cacatggtac aggaatggaa aagtgtaca tccccttgaa 540
ggagcgggtg tcataatttt taaaaaggaa atggacccag tgactcagct ctataccatg 600
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gaagcctaag agagaaactg tcctagtgtt ccagagataa aatcatata gaccaattga 1800
agcatgaacg tggattgtat ttaagacata aacaaagaca ttgacagcaa ttcattgttca 1860
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taaaaactgt gattttttat acaaggagg ggaggccgag agtcagactg atagacacca 2340
taggagccga ctctttgata tgccaccagc gaactctcag aaataaatca cagatgcata 2400

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tagacacaca	tacataatgg	tactcccaaa	ctgacaattt	tacctattct	gaaaaagaca	2460
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aaaagaaaaa	acacaagcat	gtgtgagaga	cagtttggaa	aaatcatggg	caacattccc	2580
atthttcatag	atcacaatgt	aaatcactat	aattacaaat	tgggtgttaa	tcctttgggt	2640
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tttctaggta	tagaactatg	ttattgaaag	gaaaaggaaa	actgggtgtt	gtttcttaga	3180
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gaataggaat	aatactttgc	cacttctgca	ttatttagaa	acatacgtta	ttgtacattt	3300
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tggtagtgat	taaatgcata	aaatatctta	gactcgatgc	tgtataaaat	attatgggaa	3420
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<212> DNA

<213> Homo sapiens

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<211> 1814

<212> DNA

<213> Homo sapiens

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<211> 3132

<212> DNA

<213> Homo sapiens

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<212> DNA
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<211> 1398

<212> DNA

<213> Homo sapiens

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 <213> Homo sapiens

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 ctgctggagg atcccaagat taaggagatt gctgcaaagc acaaaaaaac cgcagcccag 780
 gttctgatcc gtttccatat ccagaggaat gtgattgtca tccccaaagc tgtgacacca 840
 gcacgcattg ttgagaacat tcaggtcttt gacttttaat tgagtgatga ggagatggca 900
 accataactca gcttcaacag aaactggagg gcctgtaacg tgttgcaatc ctctcatttg 960
 gaagactatc ccttcaatgc agaataattga ggttgaatct cctggtgaga ttatacagga 1020
 gattctcttt ctctcgtgaa gtgtgactac ctccactcat gtcccathtt agccaagctt 1080
 atttaagatc acagtgaact tagtctgtt atagacgaga atcgaggtgc tgttttagac 1140
 atttatcttct gtatgttcaa ctaggatcag aatatcacag aaaagcatgg cttgaataag 1200
 gaaatgacaa ttttttccac ttatctgatc agaacaaatg tttattaagc atcagaaact 1260
 ctgccaacac tgaggatgta aagatcaata aaacaaataa taatcataaa aaaaaa 1316

<210> 324
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 <212> PRT
 <213> Homo sapiens

<400> 324
 Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Thr Ser Ala Tyr
 1 5 10 15
 Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 20 25 30
 Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35 40 45
 Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 50 55 60
 Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65 70 75 80
 Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 85 90 95
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 100 105 110
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 115 120 125
 Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
 130 135 140
 Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr

145					150					155					160
Lys	Ser	Lys	Gly	Lys	Phe	Asp	Gly	Ala	Lys	Gly	Pro	Ala	Lys	Val	Ala
				165					170					175	
Arg	Lys	Lys	Val	Glu	Glu	Glu	Asp	Glu	Glu	Gln	Glu	Glu	Glu	Glu	Glu
			180					185					190		
Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu								
		195					200								

<210> 325
 <211> 263
 <212> PRT
 <213> Homo sapiens

<400> 325

Met	Phe	Arg	Asn	Gln	Tyr	Asp	Asn	Asp	Val	Thr	Val	Trp	Ser	Pro	Gln
1				5					10					15	
Gly	Arg	Ile	His	Gln	Ile	Glu	Tyr	Ala	Met	Glu	Ala	Val	Lys	Gln	Gly
			20					25					30		
Ser	Ala	Thr	Val	Gly	Leu	Lys	Ser	Lys	Thr	His	Ala	Val	Leu	Val	Ala
		35					40				45				
Leu	Lys	Arg	Ala	Gln	Ser	Glu	Leu	Ala	Ala	His	Gln	Lys	Lys	Ile	Leu
	50					55					60				
His	Val	Asp	Asn	His	Ile	Gly	Ile	Ser	Ile	Ala	Gly	Leu	Thr	Ala	Asp
65					70				75						80
Ala	Arg	Leu	Leu	Cys	Asn	Phe	Met	Arg	Gln	Glu	Cys	Leu	Asp	Ser	Arg
				85					90					95	
Phe	Val	Phe	Asp	Arg	Pro	Leu	Pro	Val	Ser	Arg	Leu	Val	Ser	Leu	Ile
			100					105					110		
Gly	Ser	Lys	Thr	Gln	Ile	Pro	Thr	Gln	Arg	Tyr	Gly	Arg	Arg	Pro	Tyr
		115					120					125			
Gly	Val	Gly	Leu	Leu	Ile	Ala	Gly	Tyr	Asp	Asp	Met	Gly	Pro	His	Ile
	130					135					140				
Phe	Gln	Thr	Cys	Pro	Ser	Ala	Asn	Tyr	Phe	Asp	Cys	Arg	Ala	Met	Ser
145					150				155						160
Ile	Gly	Ala	Arg	Ser	Gln	Ser	Ala	Arg	Thr	Tyr	Leu	Glu	Arg	His	Met
				165					170					175	
Ser	Glu	Phe	Met	Glu	Cys	Asn	Leu	Asn	Glu	Leu	Val	Lys	His	Gly	Leu
			180					185					190		
Arg	Ala	Leu	Arg	Glu	Thr	Leu	Pro	Ala	Glu	Gln	Asp	Leu	Thr	Thr	Lys
		195					200					205			
Asn	Val	Ser	Ile	Gly	Ile	Val	Gly	Lys	Asp	Leu	Glu	Phe	Thr	Ile	Tyr
	210					215					220				
Asp	Asp	Asp	Asp	Val	Ser	Pro	Phe	Leu	Glu	Gly	Leu	Glu	Glu	Arg	Pro
225					230					235					240
Gln	Arg	Lys	Ala	Gln	Pro	Ala	Gln	Pro	Ala	Asp	Glu	Pro	Ala	Glu	Lys
				245					250					255	
Ala	Asp	Glu	Pro	Met	Glu	His									
			260												

<210> 326
 <211> 539
 <212> PRT

<400> 326

Met 1	Pro	Glu	Asn	Val 5	Ala	Pro	Arg	Ser	Gly 10	Ala	Thr	Ala	Gly	Ala	Ala
Gly	Gly	Arg	Gly	Lys	Gly	Ala	Tyr	Gln	Asp	Arg	Asp	Lys	Pro	Ala	Gln
			20					25					30		
Ile	Arg	Phe	Ser	Asn	Ile	Ser	Ala	Ala	Lys	Ala	Val	Ala	Asp	Ala	Ile
		35					40					45			
Arg	Thr	Ser	Leu	Gly	Pro	Lys	Gly	Met	Asp	Lys	Met	Ile	Gln	Asp	Gly
	50					55					60				
Lys	Gly	Asp	Val	Thr	Ile	Thr	Asn	Asp	Gly	Ala	Thr	Ile	Leu	Lys	Gln
65					70					75					80
Met	Gln	Val	Leu	His	Pro	Ala	Ala	Arg	Met	Leu	Val	Glu	Leu	Ser	Lys
				85					90					95	
Ala	Gln	Asp	Ile	Glu	Ala	Gly	Asp	Gly	Thr	Thr	Ser	Val	Val	Ile	Ile
			100					105					110		
Ala	Gly	Ser	Leu	Leu	Asp	Ser	Cys	Thr	Lys	Leu	Leu	Gln	Lys	Gly	Ile
		115					120					125			
His	Pro	Thr	Ile	Ile	Ser	Glu	Ser	Phe	Gln	Lys	Ala	Leu	Glu	Lys	Gly
	130					135					140				
Ile	Glu	Ile	Leu	Thr	Asp	Met	Ser	Arg	Pro	Val	Glu	Leu	Ser	Asp	Arg
145					150					155					160
Glu	Thr	Leu	Leu	Asn	Ser	Ala	Thr	Thr	Ser	Leu	Asn	Ser	Lys	Val	Val
				165					170					175	
Ser	Gln	Tyr	Ser	Ser	Leu	Leu	Ser	Pro	Met	Ser	Val	Asn	Ala	Val	Met
			180					185					190		
Lys	Val	Ile	Asp	Pro	Ala	Thr	Ala	Thr	Ser	Val	Asp	Leu	Arg	Asp	Ile
		195					200					205			
Lys	Ile	Val	Lys	Lys	Leu	Gly	Gly	Thr	Ile	Asp	Asp	Cys	Glu	Leu	Val
	210					215					220				
Glu	Gly	Leu	Val	Leu	Thr	Gln	Lys	Val	Ser	Asn	Ser	Gly	Ile	Thr	Arg
225					230					235					240
Val	Glu	Lys	Ala	Lys	Ile	Gly	Leu	Ile	Gln	Phe	Cys	Leu	Ser	Ala	Pro
			245						250					255	
Lys	Thr	Asp	Met	Asp	Asn	Gln	Ile	Val	Val	Ser	Asp	Tyr	Ala	Gln	Met
			260					265					270		
Asp	Arg	Val	Leu	Arg	Glu	Glu	Arg	Ala	Tyr	Ile	Leu	Asn	Leu	Val	Lys
		275					280					285			
Gln	Ile	Lys	Lys	Thr	Gly	Cys	Asn	Val	Leu	Leu	Ile	Gln	Lys	Ser	Ile
	290					295					300				
Leu	Arg	Asp	Ala	Leu	Ser	Asp	Leu	Ala	Leu	His	Phe	Leu	Asn	Lys	Met
305					310					315					320
Lys	Ile	Met	Val	Ile	Lys	Asp	Ile	Glu	Arg	Glu	Asp	Ile	Glu	Phe	Ile
			325					330					335		
Cys	Lys	Thr	Ile	Gly	Thr	Lys	Pro	Val	Ala	His	Ile	Asp	Gln	Phe	Thr
			340					345					350		
Ala	Asp	Met	Leu	Gly	Ser	Ala	Glu	Leu	Ala	Glu	Glu	Val	Asn	Leu	As

				405					410					415		
Lys	Lys	Arg	Ala	Leu	Ile	Ala	Gly	Gly	Gly	Ala	Pro	Glu	Ile	Glu	Leu	
			420						425					430		
Ala	Leu	Arg	Leu	Thr	Glu	Tyr	Ser	Arg	Thr	Leu	Ser	Gly	Met	Glu	Ser	
		435						440					445			
Tyr	Cys	Val	Arg	Ala	Phe	Ala	Asp	Ala	Met	Glu	Val	Ile	Pro	Ser	Thr	
	450					455						460				
Leu	Ala	Glu	Asn	Ala	Gly	Leu	Asn	Pro	Ile	Ser	Thr	Val	Thr	Glu	Leu	
465					470					475					480	
Arg	Asn	Arg	His	Ala	Gln	Gly	Glu	Lys	Thr	Ala	Gly	Ile	Asn	Val	Arg	
			485						490					495		
Lys	Gly	Gly	Ile	Ser	Asn	Ile	Leu	Glu	Glu	Leu	Val	Val	Gln	Pro	Leu	
			500					505					510			
Leu	Val	Ser	Val	Ser	Ala	Leu	Thr	Leu	Ala	Thr	Glu	Thr	Val	Arg	Ser	
		515					520					525				
Ile	Leu	Lys	Ile	Asp	Asp	Val	Val	Asn	Thr	Arg						
	530					535										

<210> 327
 <211> 144
 <212> PRT
 <213> Homo sapiens

<400> 327																
Met	Ala	Phe	Thr	Phe	Ala	Ala	Phe	Cys	Tyr	Met	Leu	Ala	Leu	Leu	Leu	
1				5				10					15			
Thr	Ala	Ala	Leu	Ile	Phe	Phe	Ala	Ile	Trp	His	Ile	Ile	Ala	Phe	Asp	
			20					25					30			
Glu	Leu	Lys	Thr	Asp	Tyr	Lys	Asn	Pro	Ile	Asp	Gln	Cys	Asn	Thr	Leu	
		35					40					45				
Asn	Pro	Leu	Val	Leu	Pro	Glu	Tyr	Leu	Ile	His	Ala	Phe	Phe	Cys	Val	
	50					55					60					
Met	Phe	Leu	Cys	Ala	Ala	Glu	Trp	Leu	Thr	Leu	Gly	Leu	Asn	Met	Pro	
65				70					75					80		
Leu	Leu	Ala	Tyr	His	Ile	Trp	Arg	Tyr	Met	Ser	Arg	Pro	Val	Met	Ser	
			85					90					95			
Gly	Pro	Gly	Leu	Tyr	Asp	Pro	Thr	Thr	Ile	Met	Asn	Ala	Asp	Ile	Leu	
			100					105					110			
Ala	Tyr	Cys	Gln	Lys	Glu	Gly	Trp	Cys	Lys	Leu	Ala	Phe	Tyr	Leu	Leu	
		115					120					125				
Ala	Phe	Phe	Tyr	Tyr	Leu	Tyr	Gly	Met	Ile	Tyr	Val	Leu	Val	Ser	Ser	
	130					135					140					

<210> 328
 <211> 138
 <212> PRT
 <213> Homo sapiens

<400> 328																
Met	Pro	Asn	Phe	Ser	Gly	Asn	Trp	Lys	Ile	Ile	Arg	Ser	Glu	Asn	Phe	
1				5				10					15			
Glu	Glu	Leu	Leu	Lys	Val	Leu	Gly	Val	Asn	Val	Met	Leu	Arg	Lys	Ile	

			20					25				30					
Ala	Val	Ala	Ala	Ala	Ser	Lys	Pro	Ala	Val	Glu	Ile	Lys	Gln	Glu	Gly		
		35					40					45					
Asp	Thr	Phe	Tyr	Ile	Lys	Thr	Ser	Thr	Thr	Val	Arg	Thr	Thr	Glu	Ile		
	50					55					60						
Asn	Phe	Lys	Val	Gly	Glu	Glu	Phe	Glu	Glu	Gln	Thr	Val	Asp	Gly	Arg		
65					70					75					80		
Pro	Cys	Lys	Ser	Leu	Val	Lys	Trp	Glu	Ser	Glu	Asn	Lys	Met	Val	Cys		
			85						90					95			
Glu	Gln	Lys	Leu	Leu	Lys	Gly	Glu	Gly	Pro	Lys	Thr	Ser	Trp	Thr	Arg		
			100					105					110				
Glu	Leu	Thr	Asn	Asp	Gly	Glu	Leu	Ile	Leu	Thr	Met	Thr	Ala	Asp	Asp		
		115					120					125					
Val	Val	Cys	Thr	Arg	Val	Tyr	Val	Arg	Glu								
	130					135											

<210> 329
 <211> 346
 <212> PRT
 <213> Homo sapiens

<400> 329

Met	Phe	Leu	Ser	Ile	Leu	Val	Ala	Leu	Cys	Leu	Trp	Leu	His	Leu	Ala		
1				5					10				15				
Leu	Gly	Val	Arg	Gly	Ala	Pro	Cys	Glu	Ala	Val	Arg	Ile	Pro	Met	Cys		
			20					25				30					
Arg	His	Met	Pro	Trp	Asn	Ile	Thr	Arg	Met	Pro	Asn	His	Leu	His	His		
		35					40				45						
Ser	Thr	Gln	Glu	Asn	Ala	Ile	Leu	Ala	Ile	Glu	Gln	Tyr	Glu	Glu	Leu		
	50					55					60						
Val	Asp	Val	Asn	Cys	Ser	Ala	Val	Leu	Arg	Phe	Phe	Phe	Cys	Ala	Met		
65				70					75						80		
Tyr	Ala	Pro	Ile	Cys	Thr	Leu	Glu	Phe	Leu	His	Asp	Pro	Ile	Lys	Pro		
			85					90					95				
Cys	Lys	Ser	Val	Cys	Gln	Arg	Ala	Arg	Asp	Asp	Cys	Glu	Pro	Leu	Met		
			100					105					110				
Lys	Met	Tyr	Asn	His	Ser	Trp	Pro	Glu	Ser	Leu	Ala	Cys	Asp	Glu	Leu		
		115					120					125					
Pro	Val	Tyr	Asp	Arg	Gly	Val	Cys	Ile	Ser	Pro	Glu	Ala	Ile	Val	Thr		
	130					135					140						
Asp	Leu	Pro	Glu	Asp	Val	Lys	Trp	Ile	Asp	Ile	Thr	Pro	Asp	Met	Met		
145				150					155						160		
Val	Gln	Glu	Arg	Pro	Leu	Asp	Val	Asp	Cys	Lys	Arg	Leu	Ser	Pro	Asp		
			165					170						175			
Arg	Cys	Lys	Cys	Lys	Lys	Val	Lys	Pro	Thr	Leu	Ala	Thr	Tyr	Leu	Ser		
			180					185					190				
Lys	Asn	Tyr	Ser	Tyr	Val	Ile	His	Ala	Lys	Ile	Lys	Ala	Val	Gln	Arg		
		195					200					205					
Ser	Gly	Cys	Asn	Glu	Val	Thr	Thr	Val	Val	Asp	Val	Lys	Glu	Ile	Phe		
	210					215				220							
Lys	Ser	Ser	Ser	Pro	Ile	Pro	Arg	Thr	Gln	Val	Pro	Leu	Ile	Thr	Asn		
225				230					235						240		
Ser	Ser	Cys	Gln	Cys	Pro	His	Ile	Leu	Pro	His	Gln	Asp	Val	Leu	Ile		

				245					250					255		
Met	Cys	Tyr	Glu	Trp	Arg	Ser	Arg	Met	Met	Leu	Leu	Glu	Asn	Cys	Leu	
			260					265					270			
Val	Glu	Lys	Trp	Arg	Asp	Gln	Leu	Ser	Lys	Arg	Ser	Ile	Gln	Trp	Glu	
		275					280					285				
Glu	Arg	Leu	Gln	Glu	Gln	Arg	Arg	Thr	Val	Gln	Asp	Lys	Lys	Lys	Thr	
	290					295				300						
Ala	Gly	Arg	Thr	Ser	Arg	Ser	Asn	Pro	Pro	Lys	Pro	Lys	Gly	Lys	Pro	
305					310					315					320	
Pro	Ala	Pro	Lys	Pro	Ala	Ser	Pro	Lys	Lys	Asn	Ile	Lys	Thr	Arg	Ser	
			325						330					335		
Ala	Gln	Lys	Arg	Thr	Asn	Pro	Lys	Arg	Val							
			340					345								

<210> 330
 <211> 826
 <212> PRT
 <213> Homo sapiens

<400> 330

Met	Glu	Gly	Ala	Gly	Gly	Ala	Asn	Asp	Lys	Lys	Lys	Ile	Ser	Ser	Glu	
1				5				10					15			
Arg	Arg	Lys	Glu	Lys	Ser	Arg	Asp	Ala	Ala	Arg	Ser	Arg	Arg	Ser	Lys	
		20					25					30				
Glu	Ser	Glu	Val	Phe	Tyr	Glu	Leu	Ala	His	Gln	Leu	Pro	Leu	Pro	His	
	35					40				45						
Asn	Val	Ser	Ser	His	Leu	Asp	Lys	Ala	Ser	Val	Met	Arg	Leu	Thr	Ile	
	50				55					60						
Ser	Tyr	Leu	Arg	Val	Arg	Lys	Leu	Leu	Asp	Ala	Gly	Asp	Leu	Asp	Ile	
65				70					75						80	
Glu	Asp	Asp	Met	Lys	Ala	Gln	Met	Asn	Cys	Phe	Tyr	Leu	Lys	Ala	Leu	
			85					90						95		
Asp	Gly	Phe	Val	Met	Val	Leu	Thr	Asp	Asp	Gly	Asp	Met	Ile	Tyr	Ile	
	100						105					110				
Ser	Asp	Asn	Val	Asn	Lys	Tyr	Met	Gly	Leu	Thr	Gln	Phe	Glu	Leu	Thr	
	115					120					125					
Gly	His	Ser	Val	Phe	Asp	Phe	Thr	His	Pro	Cys	Asp	His	Glu	Glu	Met	
	130				135					140						
Arg	Glu	Met	Leu	Thr	His	Arg	Asn	Gly	Leu	Val	Lys	Lys	Gly	Lys	Glu	
145				150					155						160	
Gln	Asn	Thr	Gln	Arg	Ser	Phe	Phe	Leu	Arg	Met	Lys	Cys	Thr	Leu	Thr	
			165					170						175		
Ser	Arg	Gly	Arg	Thr	Met	Asn	Ile	Lys	Ser	Ala	Thr	Trp	Lys	Val	Leu	
			180					185					190			
His	Cys	Thr	Gly	His	Ile	His	Val	Tyr	Asp	Thr	Asn	Ser	Asn	Gln	Pro	
	195					200					205					
Gln	Cys	Gly	Tyr	Lys	Lys	Pro	Pro	Met	Thr	Cys	Leu	Val	Leu	Ile	Cys	
	210					215				220						
Glu	Pro	Ile	Pro	His	Pro	Ser	Asn	Ile	Glu	Ile	Pro	Leu	Asp	Ser	Lys	
225				230					235						240	
Thr	Phe	Leu	Ser	Arg	His	Ser	Leu	Asp	Met	Lys	Phe	Ser	Tyr	Cys	Asp	
			245					250						255		
Glu	Arg	Ile	Thr	Glu	Leu	Met	Gly	Tyr	Glu	Pro	Glu	Glu	Leu	Leu	Gly	

			260					265					270			
Arg	Ser	Ile	Tyr	Glu	Tyr	Tyr	His	Ala	Leu	Asp	Ser	Asp	His	Leu	Thr	
		275					280					285				
Lys	Thr	His	His	Asp	Met	Phe	Thr	Lys	Gly	Gln	Val	Thr	Thr	Gly	Gln	
	290					295					300					
Tyr	Arg	Met	Leu	Ala	Lys	Arg	Gly	Gly	Tyr	Val	Trp	Val	Glu	Thr	Gln	
305					310					315					320	
Ala	Thr	Val	Ile	Tyr	Asn	Thr	Lys	Asn	Ser	Gln	Pro	Gln	Cys	Ile	Val	
			325						330					335		
Cys	Val	Asn	Tyr	Val	Val	Ser	Gly	Ile	Ile	Gln	His	Asp	Leu	Ile	Phe	
			340					345					350			
Ser	Leu	Gln	Gln	Thr	Glu	Cys	Val	Leu	Lys	Pro	Val	Glu	Ser	Ser	Asp	
	355					360						365				
Met	Lys	Met	Thr	Gln	Leu	Phe	Thr	Lys	Val	Glu	Ser	Glu	Asp	Thr	Ser	
	370					375					380					
Ser	Leu	Phe	Asp	Lys	Leu	Lys	Lys	Glu	Pro	Asp	Ala	Leu	Thr	Leu	Leu	
385					390					395					400	
Ala	Pro	Ala	Ala	Gly	Asp	Thr	Ile	Ile	Ser	Leu	Asp	Phe	Gly	Ser	Asn	
			405						410					415		
Asp	Thr	Glu	Thr	Asp	Asp	Gln	Gln	Leu	Glu	Glu	Val	Pro	Leu	Tyr	Asn	
			420					425					430			
Asp	Val	Met	Leu	Pro	Ser	Pro	Asn	Glu	Lys	Leu	Gln	Asn	Ile	Asn	Leu	
	435					440						445				
Ala	Met	Ser	Pro	Leu	Pro	Thr	Ala	Glu	Thr	Pro	Lys	Pro	Leu	Arg	Ser	
	450					455					460					
Ser	Ala	Asp	Pro	Ala	Leu	Asn	Gln	Glu	Val	Ala	Leu	Lys	Leu	Glu	Pro	
465					470					475					480	
Asn	Pro	Glu	Ser	Leu	Glu	Leu	Ser	Phe	Thr	Met	Pro	Gln	Ile	Gln	Asp	
			485						490					495		
Gln	Thr	Pro	Ser	Pro	Ser	Asp	Gly	Ser	Thr	Arg	Gln	Ser	Ser	Pro	Glu	
			500					505					510			
Pro	Asn	Ser	Pro	Ser	Glu	Tyr	Cys	Phe	Tyr	Val	Asp	Ser	Asp	Met	Val	
	515						520					525				
Asn	Glu	Phe	Lys	Leu	Glu	Leu	Val	Glu	Lys	Leu	Phe	Ala	Glu	Asp	Thr	
	530					535					540					
Glu	Ala	Lys	Asn	Pro	Phe	Ser	Thr	Gln	Asp	Thr	Asp	Leu	Asp	Leu	Glu	
545					550					555					560	
Met	Leu	Ala	Pro	Tyr	Ile	Pro	Met	Asp	Asp	Asp	Phe	Gln	Leu	Arg	Ser	
			565						570					575		
Phe	Asp	Gln	Leu	Ser	Pro	Leu	Glu	Ser	Ser	Ser	Ala	Ser	Pro	Glu	Ser	
			580					585					590			
Ala	Ser	Pro	Gln	Ser	Thr	Val	Thr	Val	Phe	Gln	Gln	Thr	Gln	Ile	Gln	
	595						60									

690		695		700
Glu Leu Asn Pro Lys Ile	Leu Ala Leu Gln Asn	Ala Gln Arg Lys Arg		
705		710		720
Lys Met Glu His Asp Gly Ser	Leu Phe Gln Ala Val Gly Ile Gly Thr			
		725		735
Leu Leu Gln Gln Pro Asp Asp	His Ala Ala Thr Thr Ser Leu Ser Trp			
		740		750
Lys Arg Val Lys Gly Cys Lys	Ser Ser Glu Gln Asn Gly Met Glu Gln			
		755		765
Lys Thr Ile Ile Leu Ile Pro	Ser Asp Leu Ala Cys Arg Leu Leu Gly			
		770		780
Gln Ser Met Asp Glu Ser Gly	Leu Pro Gln Leu Thr Ser Tyr Asp Cys			
785		790		800
Glu Val Asn Ala Pro Ile Gln	Gly Ser Arg Asn Leu Leu Gln Gly Glu			
		805		815
Glu Leu Leu Arg Ala Leu Asp	Gln Val Asn			
		820		825

<210> 331
 <211> 92
 <212> PRT
 <213> Homo sapiens

<400> 331
Met Ala Tyr Arg Gly Gln Gly Gln Lys Val Gln Lys Val Met Val Gln
1 5 10 15
Pro Ile Asn Leu Ile Phe Arg Tyr Leu Gln Asn Arg Ser Arg Ile Gln
20 25 30
Val Trp Leu Tyr Glu Gln Val Asn Met Arg Ile Glu Gly Cys Ile Ile
35 40 45
Gly Phe Asp Glu Tyr Met Asn Leu Val Leu Asp Asp Ala Glu Glu Ile
50 55 60
His Ser Lys Thr Lys Ser Arg Lys Gln Leu Gly Arg Ile Met Leu Lys
65 70 75 80
Gly Asp Asn Ile Thr Leu Leu Gln Ser Val Ser Asn
85 90

<210> 332
 <211> 235
 <212> PRT
 <213> Homo sapiens

<400> 332
Met Asp Pro Ala Arg Pro Leu Gly Leu Ser Ile Leu Leu Leu Phe Leu
1 5 10 15
Thr Glu Ala Ala Leu Gly Asp Ala Ala Gln Glu Pro Thr Gly Asn Asn
20 25 30
Ala Glu Ile Cys Leu Leu Pro Leu Asp Tyr Gly Pro Cys Arg Ala Leu
35 40 45
Leu Leu Arg Tyr Tyr Tyr Asp Arg Tyr Thr Gln Ser Cys Arg Gln Phe
50 55 60
Leu Tyr Gly Gly Cys Glu Gly Asn Ala Asn Asn Phe Tyr Thr Trp Glu

65				70					75				80		
Ala	Cys	Asp	Asp	Ala	Cys	Trp	Arg	Ile	Glu	Lys	Val	Pro	Lys	Val	Cys
				85					90					95	
Arg	Leu	Gln	Val	Ser	Val	Asp	Asp	Gln	Cys	Glu	Gly	Ser	Thr	Glu	Lys
			100					105						110	
Tyr	Phe	Phe	Asn	Leu	Ser	Ser	Met	Thr	Cys	Glu	Lys	Phe	Phe	Ser	Gly
		115					120					125			
Gly	Cys	His	Arg	Asn	Arg	Ile	Glu	Asn	Arg	Phe	Pro	Asp	Glu	Ala	Thr
	130					135					140				
Cys	Met	Gly	Phe	Cys	Ala	Pro	Lys	Lys	Ile	Pro	Ser	Phe	Cys	Tyr	Ser
145					150					155					160
Pro	Lys	Asp	Glu	Gly	Leu	Cys	Ser	Ala	Asn	Val	Thr	Arg	Tyr	Tyr	Phe
				165					170						175
Asn	Pro	Arg	Tyr	Arg	Thr	Cys	Asp	Ala	Phe	Thr	Tyr	Thr	Gly	Cys	Gly
			180					185					190		
Gly	Asn	Asp	Asn	Asn	Phe	Val	Ser	Arg	Glu	Asp	Cys	Lys	Arg	Ala	Cys
	195						200					205			
Ala	Lys	Ala	Leu	Lys	Lys	Lys	Lys	Lys	Met	Pro	Lys	Leu	Arg	Phe	Ala
	210					215					220				
Ser	Arg	Ile	Arg	Lys	Ile	Arg	Lys	Lys	Gln	Phe					
225					230					235					

<210> 333

<211> 291

<212> PRT

<213> Homo sapiens

<400> 333

Met	Gln	Arg	Ala	Arg	Pro	Thr	Leu	Trp	Ala	Ala	Ala	Leu	Thr	Leu	Leu
1				5					10					15	
Val	Leu	Leu	Arg	Gly	Pro	Pro	Val	Ala	Arg	Ala	Gly	Ala	Ser	Ser	Gly
			20					25					30		
Gly	Leu	Gly	Pro	Val	Val	Arg	Cys	Glu	Pro	Cys	Asp	Ala	Arg	Ala	Leu
	35						40					45			
Ala	Gln	Cys	Ala	Pro	Pro	Pro	Ala	Val	Cys	Ala	Glu	Leu	Val	Arg	Glu
	50					55					60				
Pro	Gly	Cys	Gly	Cys	Cys	Leu	Thr	Cys	Ala	Leu	Ser	Glu	Gly	Gln	Pro
65					70					75					80
Cys	Gly	Ile	Tyr	Thr	Glu	Arg	Cys	Gly	Ser	Gly	Leu	Arg	Cys	Gln	Pro
			85						90					95	
Ser	Pro	Asp	Glu	Ala	Arg	Pro	Leu	Gln	Ala	Leu	Leu	Asp	Gly	Arg	Gly
		100						105					110		
Leu	Cys	Val	Asn	Ala	Ser	Ala	Val	Ser	Arg	Leu	Arg	Ala	Tyr	Leu	Leu
	115						120					125			
Pro	Ala	Pro	Pro	Ala	Pro	Gly	Asn	Ala	Ser	Glu	Ser	Glu	Glu	Asp	Arg
	130					135						140			
Ser	Ala	Gly	Ser	Val	Glu	Ser	Pro	Ser	Val	Ser	Ser	Thr	His	Arg	Val
145					150					155					160
Ser	Asp	Pro	Lys	Phe	His	Pro	Leu	His	Ser	Lys	Ile	Ile	Ile	Ile	Lys
			165						170					175	
Lys	Gly	His	Ala	Lys	Asp	Ser	Gln	Arg	Tyr	Lys	Val	Asp	Tyr	Glu	Ser
		180						185					190		
Gln	Ser	Thr	Asp	Thr	Gln	Asn	Phe	Ser	Ser	Glu	Ser	Lys	Arg	Glu	Thr

		195					200					205					
Glu	Tyr	Gly	Pro	Cys	Arg	Arg	Glu	Met	Glu	Asp	Thr	Leu	Asn	His	Leu		
	210						215					220					
Lys	Phe	Leu	Asn	Val	Leu	Ser	Pro	Arg	Gly	Val	His	Ile	Pro	Asn	Cys		
225							230					235				240	
Asp	Lys	Lys	Gly	Phe	Tyr	Lys	Lys	Lys	Gln	Cys	Arg	Pro	Ser	Lys	Gly		
				245						250					255		
Arg	Lys	Arg	Gly	Phe	Cys	Trp	Cys	Val	Asp	Lys	Tyr	Gly	Gln	Pro	Leu		
			260						265					270			
Pro	Gly	Tyr	Thr	Thr	Lys	Gly	Lys	Glu	Asp	Val	His	Cys	Tyr	Ser	Met		
		275					280					285					
Gln	Ser	Lys															
	290																

<210> 334
 <211> 582
 <212> PRT
 <213> Homo sapiens

<400> 334																	
Glu	Ser	Lys	Gly	Ala	Ser	Ser	Cys	Arg	Leu	Leu	Phe	Cys	Leu	Leu	Ile		
1				5					10					15			
Ser	Ala	Thr	Val	Phe	Arg	Pro	Gly	Leu	Gly	Trp	Tyr	Thr	Val	Asn	Ser		
			20					25					30				
Ala	Tyr	Gly	Asp	Thr	Ile	Ile	Ile	Pro	Cys	Arg	Leu	Asp	Val	Pro	Gln		
		35					40					45					
Asn	Leu	Met	Phe	Gly	Lys	Trp	Lys	Tyr	Glu	Lys	Pro	Asp	Gly	Ser	Pro		
		50				55					60						
Val	Phe	Ile	Ala	Phe	Arg	Ser	Ser	Thr	Lys	Lys	Ser	Val	Gln	Tyr	Asp		
65					70					75					80		
Asp	Val	Pro	Glu	Tyr	Lys	Asp	Arg	Leu	Asn	Leu	Ser	Glu	Asn	Tyr	Thr		
				85				90						95			
Leu	Ser	Ile	Ser	Asn	Ala	Arg	Ile	Ser	Asp	Glu	Lys	Arg	Phe	Val	Cys		
			100					105					110				
Met	Leu	Val	Thr	Glu	Asp	Asn	Val	Phe	Glu	Ala	Pro	Thr	Ile	Val	Lys		
		115					120					125					
Val	Phe	Lys	Gln	Pro	Ser	Lys	Pro	Glu	Ile	Val	Ser	Lys	Ala	Leu	Phe		
	130					135					140						
Leu	Glu	Thr	Glu	Gln	Leu	Lys	Lys	Leu	Gly	Asp	Cys	Ile	Ser	Glu	Asp		
145					150					155					160		
Ser	Tyr	Pro	Asp	Gly	Asn	Ile	Thr	Trp	Tyr	Arg	Asn	Gly	Lys	Val	Leu		
			165					170						175			
His	Pro	Leu	Glu	Gly	Ala	Val	Val	Ile	Ile	Phe	Lys	Lys	Glu	Met	Asp		
			180					185					190				
Pro	Val	Thr	Gln	Leu	Tyr	Thr	Met	Thr	Ser	Thr	Leu	Glu	Tyr	Lys	Thr		
	195						200					205					
Thr	Lys	Ala	Asp	Ile	Gln	Met	Pro	Phe	Thr	Cys	Ser	Val	Thr	Tyr	Tyr		
	210					215						220					
Gly	Pro	Ser	Gly	Gln	Lys	Thr	Ile	His	Ser	Glu	Gln	Ala	Val	Phe	Asp		
225					230					235					240		
Ile	Tyr	Tyr	Pro	Thr	Glu	Gln	Val	Thr	Ile	Gln	Val	Leu	Pro	Pro	Lys		
			245						250					255			
Asn	Ala	Ile	Lys	Glu	Gly	Asp	Asn	Ile	Thr	Leu	Lys	Cys	Leu	Gly	Asn		

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<210> 335
<211> 709
<212> PRT
<213> Homo sapiens
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<400> 335
Met Ala Glu Val Glu Asp Gln Ala Ala Arg Asp Met Lys Arg Leu Glu
 1             5             10             15
Glu Lys Asp Lys Glu Arg Lys Asn Val Lys Gly Ile Arg Asp Asp Ile
      20             25             30
Glu Glu Glu Asp Asp Gln Glu Ala Tyr Phe Arg Tyr Met Ala Glu Asn
```

		35				40					45				
Pro	Thr	Ala	Gly	Val	Val	Gln	Glu	Glu	Glu	Glu	Asp	Asn	Leu	Glu	Tyr
	50					55					60				
Asp	Ser	Asp	Gly	Asn	Pro	Ile	Ala	Pro	Thr	Lys	Lys	Ile	Ile	Asp	Pro
65					70					75					80
Leu	Pro	Pro	Ile	Asp	His	Ser	Glu	Ile	Asp	Tyr	Pro	Pro	Phe	Glu	Lys
				85					90					95	
Asn	Phe	Tyr	Asn	Glu	His	Glu	Glu	Ile	Thr	Asn	Leu	Thr	Pro	Gln	Gln
			100					105					110		
Leu	Ile	Asp	Leu	Arg	His	Lys	Leu	Asn	Leu	Arg	Val	Ser	Gly	Ala	Ala
		115					120					125			
Pro	Pro	Arg	Pro	Gly	Ser	Ser	Phe	Ala	His	Phe	Gly	Phe	Asp	Glu	Gln
	130					135					140				
Leu	Met	His	Gln	Ile	Arg	Lys	Ser	Glu	Tyr	Thr	Gln	Pro	Thr	Pro	Ile
145					150					155					160
Gln	Cys	Gln	Gly	Val	Pro	Val	Ala	Leu	Ser	Gly	Arg	Asp	Met	Ile	Gly
				165					170					175	
Ile	Ala	Lys	Thr	Gly	Ser	Gly	Lys	Thr	Ala	Ala	Phe	Ile	Trp	Pro	Met
			180					185					190		
Leu	Ile	His	Ile	Met	Asp	Gln	Lys	Glu	Leu	Glu	Pro	Gly	Asp	Gly	Pro
		195					200					205			
Ile	Ala	Val	Ile	Val	Cys	Pro	Thr	Arg	Glu	Leu	Cys	Gln	Gln	Ile	His
	210					215					220				
Ala	Glu	Cys	Lys	Arg	Phe	Gly	Lys	Ala	Tyr	Asn	Leu	Arg	Ser	Val	Ala
225					230					235					240
Val	Tyr	Gly	Gly	Gly	Ser	Met	Trp	Glu	Gln	Ala	Lys	Ala	Leu	Gln	Glu
				245					250					255	
Gly	Ala	Glu	Ile	Val	Val	Cys	Thr	Pro	Gly	Arg	Leu	Ile	Asp	His	Val
			260					265					270		
Lys	Lys	Lys	Ala	Thr	Asn	Leu	Gln	Arg	Val	Ser	Tyr	Leu	Val	Phe	Asp
		275					280					285			
Glu	Ala	Asp	Arg	Met	Phe	Asp	Met	Gly	Phe	Glu	Tyr	Gln	Val	Arg	Ser
	290					295					300				
Ile	Ala	Ser	His	Val	Arg	Pro	Asp	Arg	Gln	Thr	Leu	Leu	Phe	Ser	Ala
305					310					315					320
Thr	Phe	Arg	Lys	Lys	Ile	Glu	Lys	Leu	Ala	Arg	Asp	Ile	Leu	Ile	Asp
				325					330					335	
Pro	Ile	Arg	Val	Val	Gln	Gly	Asp	Ile	Gly	Glu	Ala	Asn	Glu	Asp	Val
			340					345					350		
Thr	Gln	Ile	Val	Glu	Ile	Leu	His	Ser	Gly	Pro	Ser	Lys	Trp	Asn	Trp
		355					360					365			
Leu	Thr	Arg	Arg	Leu	Val	Glu	Phe	Thr	Ser	Ser	Gly	Ser	Val	Leu	Leu
	370					375					380				
Phe	Val	Thr	Lys	Lys	Ala	Asn	Ala	Glu	Glu	Leu	Ala	Asn	Asn	Leu	Lys
385					390										

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465          470          475          480
Thr Leu Leu Thr Pro Lys Asp Ser Asn Phe Ala Gly Asp Leu Val Arg
          485          490          495
Asn Leu Glu Gly Ala Asn Gln His Val Ser Lys Glu Leu Leu Asp Leu
          500          505          510
Ala Met Gln Asn Ala Trp Phe Arg Lys Ser Arg Phe Lys Gly Gly Lys
          515          520          525
Gly Lys Lys Leu Asn Ile Gly Gly Gly Gly Leu Gly Tyr Arg Glu Arg
          530          535          540
Pro Gly Leu Gly Ser Glu Asn Met Asp Arg Gly Asn Asn Asn Val Met
545          550          555          560
Ser Asn Tyr Glu Ala Tyr Lys Pro Ser Thr Gly Ala Met Gly Asp Arg
          565          570          575
Leu Thr Ala Met Lys Ala Ala Phe Gln Ser Gln Tyr Lys Ser His Phe
          580          585          590
Val Ala Ala Ser Leu Ser Asn Gln Lys Ala Gly Ser Ser Ala Ala Gly
          595          600          605
Ala Ser Gly Trp Thr Ser Ala Gly Ser Leu Asn Ser Val Pro Thr Asn
          610          615          620
Ser Ala Gln Gln Gly His Asn Ser Pro Asp Ser Pro Val Thr Ser Ala
625          630          635          640
Ala Lys Gly Ile Pro Gly Phe Gly Asn Thr Gly Asn Ile Ser Gly Ala
          645          650          655
Pro Val Thr Tyr Pro Ser Ala Gly Ala Gln Gly Val Asn Asn Thr Ala
          660          665          670
Ser Gly Asn Asn Ser Arg Glu Gly Thr Gly Gly Ser Asn Gly Lys Arg
          675          680          685
Glu Arg Tyr Thr Glu Asn Arg Gly Ser Ser Pro Ser Gln Ser Arg Arg
          690          695          700
Asp Trp Gln Ser Ala
705

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<210> 336
<211> 480
<212> PRT
<213> Homo sapiens

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```

<400> 336
Met Ile Arg Ala Ala Pro Pro Pro Leu Phe Leu Leu Leu Leu Leu
  1          5          10          15
Leu Leu Leu Val Ser Trp Ala Ser Arg Gly Glu Ala Ala Pro Asp Gln
          20          25          30
Asp Glu Ile Gln Arg Leu Pro Gly Leu Ala Lys Gln Pro Ser Phe Arg
          35          40          45
Gln Tyr Ser Gly Tyr Leu Lys Ser Ser Gly Ser Lys His Leu His Tyr
          50          55          60
Trp Phe Val Glu Ser Gln Lys Asp Pro Glu Asn Ser Pro Val Val Leu
65          70          75          80
Trp Leu Asn Gly Gly Pro Gly Cys Ser Ser Leu Asp Gly Leu Leu Thr
          85          90          95
Glu His Gly Pro Phe Leu Val Gln Pro Asp Gly Val Thr Leu Glu Tyr
          100          105          110
Asn Pro Tyr Ser Trp Asn Leu Ile Ala Asn Val Leu Tyr Leu Glu Ser

```

		115					120					125					
Pro	Ala	Gly	Val	Gly	Phe	Ser	Tyr	Ser	Asp	Asp	Lys	Phe	Tyr	Ala	Thr		
	130						135					140					
Asn	Asp	Thr	Glu	Val	Ala	Gln	Ser	Asn	Phe	Glu	Ala	Leu	Gln	Asp	Phe		
145					150					155					160		
Phe	Arg	Leu	Phe	Pro	Glu	Tyr	Lys	Asn	Asn	Lys	Leu	Phe	Leu	Thr	Gly		
				165					170					175			
Glu	Ser	Tyr	Ala	Gly	Ile	Tyr	Ile	Pro	Thr	Leu	Ala	Val	Leu	Val	Met		
			180					185					190				
Gln	Asp	Pro	Ser	Met	Asn	Leu	Gln	Gly	Leu	Ala	Val	Gly	Asn	Gly	Leu		
	195						200					205					
Ser	Ser	Tyr	Glu	Gln	Asn	Asp	Asn	Ser	Leu	Val	Tyr	Phe	Ala	Tyr	Tyr		
	210					215					220						
His	Gly	Leu	Leu	Gly	Asn	Arg	Leu	Trp	Ser	Ser	Leu	Gln	Thr	His	Cys		
225					230					235					240		
Cys	Ser	Gln	Asn	Lys	Cys	Asn	Phe	Tyr	Asp	Asn	Lys	Asp	Leu	Glu	Cys		
			245					250					255				
Val	Thr	Asn	Leu	Gln	Glu	Val	Ala	Arg	Ile	Val	Gly	Asn	Ser	Gly	Leu		
		260					265						270				
Asn	Ile	Tyr	Asn	Leu	Tyr	Ala	Pro	Cys	Ala	Gly	Gly	Val	Pro	Ser	His		
	275					280						285					
Phe	Arg	Tyr	Glu	Lys	Asp	Thr	Val	Val	Val	Gln	Asp	Leu	Gly	Asn	Ile		
	290					295					300						
Phe	Thr	Arg	Leu	Pro	Leu	Lys	Arg	Met	Trp	His	Gln	Ala	Leu	Leu	Arg		
305				310						315					320		
Ser	Gly	Asp	Lys	Val	Arg	Met	Asp	Pro	Pro	Cys	Thr	Asn	Thr	Thr	Ala		
			325					330					335				
Ala	Ser	Thr	Tyr	Leu	Asn	Asn	Pro	Tyr	Val	Arg	Lys	Ala	Leu	Asn	Ile		
		340					345					350					
Pro	Glu	Gln	Leu	Pro	Gln	Trp	Asp	Met	Cys	Asn	Phe	Leu	Val	Asn	Leu		
	355					360						365					
Gln	Tyr	Arg	Arg	Leu	Tyr	Arg	Ser	Met	Asn	Ser	Gln	Tyr	Leu	Lys	Leu		
	370					375					380						
Leu	Ser	Ser	Gln	Lys	Tyr	Gln	Ile	Leu	Leu	Tyr	Asn	Gly	Asp	Val	Asp		
385				390						395					400		
Met	Ala	Cys	Asn	Phe	Met	Gly	Asp	Glu	Trp	Phe	Val	Asp	Ser	Leu	Asn		
			405					410					415				
Gln	Lys	Met	Glu	Val	Gln	Arg	Arg	Pro	Trp	Leu	Val	Lys	Tyr	Gly	Asp		
		420						425					430				
Ser	Gly	Glu	Gln	Ile	Ala	Gly	Phe	Val	Lys	Glu	Phe	Ser	His	Ile	Ala		
	435					440						445					
Phe	Leu	Thr	Ile	Lys	Gly	Ala	Gly	His	Met	Val	Pro	Thr	Asp	Lys	Pro		
	450					455					460						
Leu	Ala	Ala	Phe	Thr	Met	Phe	Ser	Arg	Phe	Leu	Asn	Lys	Gln	Pro	Tyr		
465				470						475					480		

<210> 337

<211> 543

<212> PRT

<213> Homo sapiens

<400> 337

Met Ala Ala Ala Lys Ala Glu Met Gln Leu Met Ser Pro Leu Gln Ile

1				5					10					15		
Ser	Asp	Pro	Phe	Gly	Ser	Phe	Pro	His	Ser	Pro	Thr	Met	Asp	Asn	Tyr	
			20					25					30			
Pro	Lys	Leu	Glu	Glu	Met	Met	Leu	Leu	Ser	Asn	Gly	Ala	Pro	Gln	Phe	
		35					40					45				
Leu	Gly	Ala	Ala	Gly	Ala	Pro	Glu	Gly	Ser	Gly	Ser	Asn	Ser	Ser	Ser	
	50					55					60					
Ser	Ser	Ser	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ser	Asn	Ser	Ser	
65				70					75						80	
Ser	Ser	Ser	Ser	Thr	Phe	Asn	Pro	Gln	Ala	Asp	Thr	Gly	Glu	Gln	Pro	
				85				90						95		
Tyr	Glu	His	Leu	Thr	Ala	Glu	Ser	Phe	Pro	Asp	Ile	Ser	Leu	Asn	Asn	
			100					105					110			
Glu	Lys	Val	Leu	Val	Glu	Thr	Ser	Tyr	Pro	Ser	Gln	Thr	Thr	Arg	Leu	
		115					120					125				
Pro	Pro	Ile	Thr	Tyr	Thr	Gly	Arg	Phe	Ser	Leu	Glu	Pro	Ala	Pro	Asn	
	130					135					140					
Ser	Gly	Asn	Thr	Leu	Trp	Pro	Glu	Pro	Leu	Phe	Ser	Leu	Val	Ser	Gly	
145				150						155					160	
Leu	Val	Ser	Met	Thr	Asn	Pro	Pro	Ala	Ser	Ser	Ser	Ser	Ala	Pro	Ser	
			165					170					175			
Pro	Ala	Ala	Ser	Ser	Ala	Ser	Ala	Ser	Gln	Ser	Pro	Pro	Leu	Ser	Cys	
			180					185					190			
Ala	Val	Pro	Ser	Asn	Asp	Ser	Ser	Pro	Ile	Tyr	Ser	Ala	Ala	Pro	Thr	
	195					200					205					
Phe	Pro	Thr	Pro	Asn	Thr	Asp	Ile	Phe	Pro	Glu	Pro	Gln	Ser	Gln	Ala	
	210					215					220					
Phe	Pro	Gly	Ser	Ala	Gly	Thr	Ala	Leu	Gln	Tyr	Pro	Pro	Pro	Ala	Tyr	
225					230					235					240	
Pro	Ala	Ala	Lys	Gly	Gly	Phe	Gln	Val	Pro	Met	Ile	Pro	Asp	Tyr	Leu	
			245					250						255		
Phe	Pro	Gln	Gln	Gln	Gly	Asp	Leu	Gly	Leu	Gly	Thr	Pro	Asp	Gln	Lys	
			260					265					270			
Pro	Phe	Gln	Gly	Leu	Glu	Ser	Arg	Thr	Gln	Gln	Pro	Ser	Leu	Thr	Pro	
	275					280						285				
Leu	Ser	Thr	Ile	Lys	Ala	Phe	Ala	Thr	Gln	Ser	Gly	Ser	Gln	Asp	Leu	
	290					295					300					
Lys	Ala	Leu	Asn	Thr	Ser	Tyr	Gln	Ser	Gln	Leu	Ile	Lys	Pro	Ser	Arg	
305				310						315					320	
Met	Arg	Lys	Tyr	Pro	Asn	Arg	Pro	Ser	Lys	Thr	Pro	Pro	His	Glu	Arg	
			325						330					335		
Pro	Tyr	Ala	Cys	Pro	Val	Glu	Ser	Cys	Asp	Arg	Arg	Phe	Ser	Arg	Ser	
			340					345					350			
Asp	Glu	Leu	Thr	Arg	His	Ile	Arg	Ile	His	Thr	Gly	Gln	Lys	Pro	Phe	
	355					360						365				
Gln	Cys	Arg	Ile	Cys	Met	Arg	Asn	Phe	Ser	Arg	Ser	Asp	His	Leu	Thr	
	370					375					380					
Thr	His	Ile	Arg	Thr	His	Thr	Gly	Glu	Lys	Pro	Phe	Ala	Cys	Asp	Ile	
385					390					395					400	
Cys	Gly	Arg	Lys	Phe	Ala	Arg	Ser	Asp	Glu	Arg	Lys	Arg	His	Thr	Lys	
			405					410					415			
Ile	His	Leu	Arg	Gln	Lys	Asp	Lys	Lys	Ala	Asp	Lys	Ser	Val	Val	Ala	
			420					425					430			
Ser	Ser	Ala	Thr	Ser	Ser	Leu	Ser	Ser	Tyr	Pro	Ser	Pro	Val	Ala	Thr	

	435		440		445										
Ser	Tyr	Pro	Ser	Pro	Val	Thr	Thr	Ser	Tyr	Pro	Ser	Pro	Ala	Thr	Thr
	450					455					460				
Ser	Tyr	Pro	Ser	Pro	Val	Pro	Thr	Ser	Phe	Ser	Ser	Pro	Gly	Ser	Ser
465					470					475					480
Thr	Tyr	Pro	Ser	Pro	Val	His	Ser	Gly	Phe	Pro	Ser	Pro	Ser	Val	Ala
				485					490					495	
Thr	Thr	Tyr	Ser	Ser	Val	Pro	Pro	Ala	Phe	Pro	Ala	Gln	Val	Ser	Ser
			500					505					510		
Phe	Pro	Ser	Ser	Ala	Val	Thr	Asn	Ser	Phe	Ser	Ala	Ser	Thr	Gly	Leu
		515				520						525			
Ser	Asp	Met	Thr	Ala	Thr	Phe	Ser	Pro	Arg	Thr	Ile	Glu	Ile	Cys	
	530					535					540				

<210> 338
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 338

Pro	Pro	Ala	Thr	Ser	Tyr	Ala	Pro	Ser	Asp	Val	Pro	Ser	Gly	Val	Ala
1				5				10					15		
Leu	Phe	Leu	Thr	Ile	Pro	Phe	Ala	Phe	Phe	Leu	Pro	Glu	Leu	Ile	Phe
			20				25					30			
Gly	Phe	Leu	Val	Trp	Thr	Met	Val	Ala	Ala	Thr	His	Ile	Val	Tyr	Pro
		35				40					45				
Leu	Leu	Gln	Gly	Trp	Val	Met	Tyr	Val	Ser	Leu	Thr	Ser	Phe	Leu	Ile
	50					55					60				
Ser	Leu	Met	Phe	Leu	Leu	Ser	Tyr	Leu	Phe	Gly	Phe	Tyr	Lys	Arg	Phe
65				70						75				80	
Glu	Ser	Trp	Arg	Val	Leu	Asp	Ser	Leu	Tyr	His	Gly	Thr	Thr	Gly	Ile
			85						90					95	
Leu	Tyr	Met	Ser	Ala	Ala	Val	Leu	Gln	Val	His	Ala	Thr	Ile	Val	Ser
		100						105					110		
Glu	Lys	Leu	Leu	Asp	Pro	Arg	Ile	Tyr	Tyr	Ile	Asn	Ser	Ala	Ala	Ser
		115					120					125			
Phe	Phe	Ala	Phe	Ile	Ala	Thr	Leu	Leu	Tyr	Ile	Leu	His	Ala	Phe	Ser
	130					135					140				
Ile	Tyr	Tyr	His												
145															

<210> 339
 <211> 196
 <212> PRT
 <213> Homo sapiens

<400> 339

Met	Pro	Gly	Met	Phe	Phe	Ser	Ala	Asn	Pro	Lys	Glu	Leu	Lys	Gly	Thr
1				5				10						15	
Thr	His	Ser	Leu	Leu	Asp	Asp	Lys	Met	Gln	Lys	Arg	Arg	Pro	Lys	Thr
			20					25					30		
Phe	Gly	Met	Asp	Met	Lys	Ala	Tyr	Leu	Arg	Ser	Met	Ile	Pro	His	Leu

		35					40				45								
Glu	Ser	Gly	Met	Lys	Ser	Ser	Lys	Ser	Lys	Asp	Val	Leu	Ser	Ala	Ala				
	50						55				60								
Glu	Val	Met	Gln	Trp	Ser	Gln	Ser	Leu	Glu	Lys	Leu	Leu	Ala	Asn	Gln				
65					70					75					80				
Thr	Gly	Gln	Asn	Val	Phe	Gly	Ser	Phe	Leu	Lys	Ser	Glu	Phe	Ser	Glu				
				85					90					95					
Glu	Asn	Ile	Glu	Phe	Trp	Leu	Ala	Cys	Glu	Asp	Tyr	Lys	Lys	Thr	Glu				
			100					105					110						
Ser	Asp	Leu	Leu	Pro	Cys	Lys	Ala	Glu	Glu	Ile	Tyr	Lys	Ala	Phe	Val				
	115						120					125							
His	Ser	Asp	Ala	Ala	Lys	Gln	Ile	Asn	Ile	Asp	Phe	Arg	Thr	Arg	Glu				
	130					135				140									
Ser	Thr	Ala	Lys	Lys	Ile	Lys	Ala	Pro	Thr	Pro	Thr	Cys	Phe	Asp	Glu				
145					150					155					160				
Ala	Gln	Lys	Val	Ile	Tyr	Thr	Leu	Met	Glu	Lys	Asp	Ser	Tyr	Pro	Arg				
				165					170					175					
Phe	Leu	Lys	Ser	Asp	Ile	Tyr	Leu	Asn	Leu	Leu	Asn	Asp	Leu	Gln	Ala				
			180					185					190						
Asn	Ser	Leu	Lys																
		195																	

<210> 340
 <211> 316
 <212> PRT
 <213> Homo sapiens

Met	Ala	Thr	Phe	Val	Glu	Leu	Ser	Thr	Lys	Ala	Lys	Met	Pro	Ile	Val				
1				5					10					15					
Gly	Leu	Gly	Thr	Trp	Lys	Ser	Pro	Leu	Gly	Lys	Val	Lys	Glu	Ala	Val				
			20					25					30						
Lys	Val	Ala	Ile	Asp	Ala	Gly	Tyr	Arg	His	Ile	Asp	Cys	Ala	Tyr	Val				
		35					40				45								
Tyr	Gln	Asn	Glu	His	Glu	Val	Gly	Glu	Ala	Ile	Gln	Glu	Lys	Ile	Gln				
	50					55					60								
Glu	Lys	Ala	Val	Lys	Arg	Glu	Asp	Leu	Phe	Ile	Val	Ser	Lys	Leu	Trp				
65					70					75					80				
Pro	Thr	Phe	Phe	Glu	Arg	Pro	Leu	Val	Arg	Lys	Ala	Phe	Glu	Lys	Thr				
				85					90					95					
Leu	Lys	Asp	Leu	Lys	Leu	Ser	Tyr	Leu	Asp	Val	Tyr	Leu	Ile	His	Trp				
			100					105					110						
Pro	Gln	Gly	Phe	Lys	Ser	Gly	Asp	Asp	Leu	Phe	Pro	Lys	Asp	Asp	Lys				
		115					120					125							
Gly	Asn	Ala	Ile	Gly	Gly	Lys	Ala	Thr	Phe	Leu	Asp	Ala	Trp	Glu	Ala				
	130					135					140								
Met	Glu	Glu	Leu	Val	Asp	Glu	Gly	Leu	Val	Lys	Ala	Leu	Gly	Val	Ser				
145					150					155					160				
Asn	Phe	Ser	His	Phe	Gln	Ile	Glu	Lys	Leu	Leu	Asn	Lys	Pro	Gly	Leu				
			165					170						175					
Lys	Tyr	Lys	Pro	Val	Thr	Asn	Gln	Val	Glu	Cys	His	Pro	Tyr	Leu	Thr				
			180					185					190						
Gln	Glu	Lys	Leu	Ile	Gln	Tyr	Cys	His	Ser	Lys	Gly	Ile	Thr	Val	Thr				

	195		200		205										
Ala	Tyr	Ser	Pro	Leu	Gly	Ser	Pro	Asp	Arg	Pro	Trp	Ala	Lys	Pro	Glu
	210					215					220				
Asp	Pro	Ser	Leu	Leu	Glu	Asp	Pro	Lys	Ile	Lys	Glu	Ile	Ala	Ala	Lys
225					230					235					240
His	Lys	Lys	Thr	Ala	Ala	Gln	Val	Leu	Ile	Arg	Phe	His	Ile	Gln	Arg
			245						250					255	
Asn	Val	Ile	Val	Ile	Pro	Lys	Ser	Val	Thr	Pro	Ala	Arg	Ile	Val	Glu
			260						265				270		
Asn	Ile	Gln	Val	Phe	Asp	Phe	Lys	Leu	Ser	Asp	Glu	Glu	Met	Ala	Thr
		275					280					285			
Ile	Leu	Ser	Phe	Asn	Arg	Asn	Trp	Arg	Ala	Cys	Asn	Val	Leu	Gln	Ser
	290					295					300				
Ser	His	Leu	Glu	Asp	Tyr	Pro	Phe	Asn	Ala	Glu	Tyr				
305					310					315					

<210> 341
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 6, 10, 13, 15, 29
 <223> n = A,T,C or G

<400> 341
 gatganattt ttncnagaga gaggaagang ctattcagtt ggatgggatt aaatgcatca 60
 caaataagag aacttagaga gaagtcggaa aagtttgcct tccaagcccg aagttaacag 120
 aatgatgaaa cttatcatca attcattgta taaaaataaa gagattttcc tgagagaact 180
 gatttcaaatt gcttctgatg ctttagataa gataaggcta atatcactga ctgatgaaaa 240
 tgctctttct ggaaatgagg aactaacagt caaaattaag tgtgataagg agaagacctg 300
 ctgcatgtca cagacaccgg tgtaggaatg accagagaag agttgggttaa aaaccttggt 360
 accatagcca aatctgggac aagcgagttt ttaaacaaaa tgactgaagc acaggaagat 420
 gg 422

<210> 342
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 109
 <223> n = A,T,C or G

<400> 342
 ctggagaagg tgtgcagggg aaaccttgct gatgtcaccg aggccaggtt gtctttctac 60
 tcgggacact ctctctttgg gatgtactgc atggtgttct tggcgctgna tgtgcaggca 120
 cgactctggt ggaagtgggc acggctgctg cgacccacag tccagttctt cctggtggcc 180
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgtc 240
 cttgtttggc tcctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300
 ttctcaaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360

```

agcctgtcac tgacgttgac cctgggcgag gctgaccaca accactatgg atacccgcac 420
tcctcctcct gaggccggac cccgcccagg caggagagcta ctgtgagtcc ag 472

```

```

<210> 343
<211> 139
<212> DNA
<213> Homo sapiens

```

```

<400> 343
gtcctgggcc ttccccttcc ctcaagccag ggctcctcct cctgtcgtgg gctcattgtg 60
accactggcc tctctacagc acggcctgtg gcctgttcaa ggcagaacca cgacccttga 120
ctcccgggtg gggaggttg 139

```

```

<210> 344
<211> 235
<212> DNA
<213> Homo sapiens

```

```

<400> 344
ctgcgggctc agcacagtag acatgactgg gatccccacc ttggacaacc tccagaaggg 60
agtccaattt gctctcaagt accagtcgct gggccagtgt gtttacgtgc attgtaaggc 120
tgggcgctcc aggagtgcc ctatgggtggc agcatacctg attcagggtgc acaaatggag 180
tccagaggag gctgtaagag ccatcgccaa gatccggtca tacatccaca tcagg 235

```

```

<210> 345
<211> 458
<212> DNA
<213> Homo sapiens

```

```

<400> 345
ctgtaagggtg ctattcagtc ctgtgaccct tatttttgaa tgctcttcat tactgttgct 60
ctgtttttgtg acttcctggg aaaccgccta ctttggtgtg gtgtcacctt gagctgtgca 120
cataggacac cagttttgac ttaacctaac aggcagtttt tatctctagc tttttcaagc 180
caggtattga gcagttttctt ggccaatggc ctgagaaacc acctgtccct gtcaaggggt 240
gattttattg gttttaagtg gggaagtaat cccatgtact tatttcttaa atacctagga 300
agttcttctt ggtggctcct cttggccctc ccctctttct cccccaaccc accatcctgc 360
aaggcaagga atggcctctc cctccacaga ggcaacggct gcagagggag cactgtgggt 420
gccatcccag ttcctcttca aagccaaaca gacacgcg 458

```

```

<210> 346
<211> 525
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41, 42, 47, 48, 49, 161, 316, 324, 326, 327, 379, 455, 509
<223> n = A,T,C or G

```

```

<400> 346
ccagagcaca acgcctcacc atggactgga cctggaggat nntcttnnng gtggcagcag 60
ccacaggtgt ccactcccaa gcccaacttg tgcagtctgg ggctgaggag aagaagcctg 120
gggcctcagt gactatttct tgtaaggctt ctggatatat ncttactaaa tatactttac 180
attgggtgcg ccaggcccc cccggacaaa gacctgaatg ggtgggatgg atcaacactg 240

```

```

gcattgatac cgttaaatat tcacagaagt ttcaggacag agtctccatt acctgggact 300
catccgcgac cacagnctac ctgnanntga gtagcctgga atccgaagac acggctgtgt 360
attactgtgc gagacttang gcccggttcgc tgtggtggga cttaatgacg cttttgacat 420
ctggggccaa gggacagtgg tcaccgtctc ttcanggagt gcattcgccc caaccctttt 480
ccccctctct cctgtgaaga attccccgnc ggatacgagc agcgt 525

```

<210> 347

<211> 423

<212> DNA

<213> Homo sapiens

<400> 347

```

ccagacgctg acttgtttct gagtccttaa gcaggaagga tttgaaatcc tggagcttgg 60
cagtcttgct cttcacctct aagccaatgt tgaccccttc atctataaag tccacaactc 120
tccggaagtc atcctcacgg aactgtcgag aagttaaggc tggggcccca agccgcaggc 180
cgcccggtgt gatggcactt cggctctccag gacaggtgtt cttgtttggca gtgatggata 240
caagctctag caccgctca gcccgagctc catccaggcc cttggggccgc aggtccacca 300
gcaccaggtg gttgtcagta ccacctgata ccagttagta gcctcgctct agcagggcat 360
ctgccatggc ccgagcattc ttcagaacct gcagggagta ctcccggaac atgggggtgc 420
agg 423

```

<210> 348

<211> 513

<212> DNA

<213> Homo sapiens

<400> 348

```

cctctagggc tgatgctctc agaggcaata gaagaaaagt aaaaggaagg tctcacttca 60
cagacaatga aacctctcta accctcttcc ccactacca caactcccta cactgccaat 120
ctaaataaaa agaggacaat gcatgagtgt gagatacaca tacacacaca cacatacaca 180
cacacacacg cacagcttcc ttccagccaa agaactgcaa aatccttccc cggaaggagg 240
acaactggca acaccaatca aggcttggtg gtctaagggt atggctggaa tcatgtgaga 300
ctggtaaaaa tccagggaga aaatgtttca ccttcagctc attcccaagt ctctatgaag 360
cccgccccac ttccacatag gggaactgtg gctctggggg cagcctctgc agctactcag 420
aataggtggg aggaggggct ggctttgagg ctgccttagc catgaggctc tttgcctagg 480
aatagctgga gatgggagct gcaggggggt cag 513

```

<210> 349

<211> 231

<212> DNA

<213> Homo sapiens

<400> 349

```

ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagagtagga ttgcgctggt atccctaggg taacttggtc c 231

```

<210> 350

<211> 341

<212> DNA

<213> Homo sapiens

<400> 350

```

ctgcccgaagg gcgttcgtaa cgggaatgcc gaagcgtggg aaaaagggag cgggtggcga 60
agacgggggat gagctcagga cagagccaga ggccaagaag agtaagacgg ccgcaaagaa 120
aaatgacaaa gaggcagcag gagagggccc agccctgtat gaggaccccc cagatcagaa 180
aacctcaccc agtggcaaac ctgccacacc caagatctgc tcttggaatg tggatgggct 240
tcgagcctgg attaagaaga aaggattaga ttgggtaaag gaagaagccc cagatatact 300
gtgccttcaa gagaccaaat gttcagagaa caaactacca g 341

```

```

<210> 351
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<400> 351
ggcgttgggg acggttgtag gacgtggctc tttattcgtg agttttccat ttacctccgc 60
tgaacctaga gcttcagacg ccctatggcg tccgcctcga cccaaccggc ggccttgagc 120
gctgagcaag caaagggtgt cctcgcggag gtgatccagg cgttctccgc cccggagaa 180
gcagtgcgca tggacgaggc tcgggataac gcttgcaacg acatgggtaa gatgctgcaa 240
ttcgtgctgc ccgtgg 256

```

```

<210> 352
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 21
<223> n = A,T,C or G

```

```

<400> 352
cctttcttgt aagtgaagaa naaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatt cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180
tcttcagtct tgctgacagt caaagagcaa gtgaaaccat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg 368

```

```

<210> 353
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 353
ctgaggggtg gcagtaagca atgaggatgg gctataaagc tgttaactgg ctaagggcca 60
tccttgggca ggcatttcag acacatctgt agagagggca gtagcatctc cgataggcca 120
gctctgaagg aagcttaatg cttaatacag tcacactgca taaattagct tagaatgctc 180
tcttgggtaa aaaatattaa tagtgtatat gcacttgaag agcaaaattc ctcaagaaaa 240
aaagtttaat agcaaggagt ttccatcagt cccggctctt gtgaggatta ccacaacaaa 300
cacttaaaag gatacaacag gtacttatta aatgctgcct tgccttttac ctcttccttt 360
tttttttt 368

```

```

<210> 354
<211> 380

```


<212> DNA
 <213> Homo sapiens

<400> 354
 ccatggcttc tcacccagac agtctttctg ggcaacttgg ggaagcccct gttctgctca 60
 agtctcacc catggaagag gtgggggaag ggggccttgg tttttcagga agacagggtg 120
 gagagcacga gtcactacaa agcagtaaaa gtgaatggtg tctccagggg ctgggtccag 180
 aacaccacgg agagccccag ccataaaggt gtgttccgcc tctggcctgc aggaatctct 240
 ttgaatctct ttgattggtg gctccaagag caatgggaag tcaacagcca ggaggctgga 300
 ctgggttccc tgggaccccg aggtcccaga gctgctgggc agtggttgtc ggcaaagaag 360
 aaaggtccaa gagggtcagg 380

<210> 355
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 355
 ccagtggagg ggtgggggta tcgatcccgc cgggggctgg cttgggttgc ggtgccctga 60
 gcccttctct gccgcctgg gtgttgccct cactgatgga ggtaggcgtc cagccagatg 120
 tcaccagact tcttcgggga cctgacgatg tccaccagcg cggtgaggaa gggcttcact 180
 tcgtagctga ggccgtgctt ggcacacagc gacttgacca gcggggccac ccggctgtag 240
 ttgtgtctcg gcacccctgg gaagaggtgg tgctcgatct ggaagttgag gtgcccgtg 300
 aaccagttgg tgaaaagtga gggctccacg ttgcaggtgg ctgccag 347

<210> 356
 <211> 157
 <212> DNA
 <213> Homo sapiens

<400> 356
 cctggagctg ctgaagactg ctattgggaa agctggctac actgataagg tggatcatcg 60
 catggacgta gcggcctccg agttcttcag gtctgggaag tatgacctgg acttcaagtc 120
 tccgatgac cccagcagggt acatctcgcc tgaccag 157

<210> 357
 <211> 323
 <212> DNA
 <213> Homo sapiens

<400> 357
 ccatacaggg ctgttgccca ggccctagag gtcactcctc gtaccctgat ccagaactgt 60
 ggggccagca ccacccgtct acttacctcc ctccgggcca agcacaccca ggagaactgt 120
 gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata 180
 tgggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
 ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300
 caaggcgggg ctctgatgc tgg 323

<210> 358
 <211> 555
 <212> DNA
 <213> Homo sapiens

<400> 358

```

aaaagggtttc taaaacatga cggagggttga gatgaagctt cttcatggag taaaaaatgt 60
attttaaaga aaattgagag aaaggactac agagccccga gttaatacca atagaagggc 120
aatgctttta gattaaaatg aaggtgactt aaacagctta aagtttagtt taaaagttgt 180
aggtgattaa aataatttga aggcgatctt ttaaaaagag attaaaccga aggtgattaa 240
aagaccttga aatccatgac gcagggagaa ttgcgtcatt taaagcctag ttaacgcatt 300
tactaaacgc agacgaaaat ggaaagatta attgggagtg gtaggatgaa acaatttgga 360
gaagatagaa gtttgaagtg gaaaactgga agacagaagt acgggaaggc gaagaaaaga 420
atagagaaga tagggaaatt agaagataaa aacatacttt tagaagaaaa aagataaatt 480
taaacctgaa aagtaggaag cagaagaaaa aagacaagct aggaaacaaa aagctaaggg 540
caaaatgtac accac 555

```

<210> 359

<211> 549

<212> DNA

<213> Homo sapiens

<400> 359

```

ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc cttcctcggc 60
agtcacttcc actggtggac cacgggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gagcccactt ccatactctc tgggtgtgagg cacagcgagg 180
gcagcatctg gaggagctct gcagcctcca cacctaccac gacctcccag ggctgggctc 240
aggaaaaacc agccactgct ttacaggaca ggggggttgaa gctgagcccc gcctcacacc 300
cacccccatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattgtt aagttaagct 420
ttttcaaaaa atcagcaatt cccagcgtg gtcaagggtg gacactgcac gctctggcat 480
gatgggatgg cgaccgggca agctttcttc ctcgagatgc tcttgctgct tgagagctat 540
tgctttgggt 549

```

<210> 360

<211> 289

<212> DNA

<213> Homo sapiens

<400> 360

```

tttaaatttt actagtgtta cttaatgtat attctaaaaa gagaatgcag taactaatgc 60
cctaaatgtt tgatctctgt ttgtcattac tttttcaaaa ttattttttt ctgtaaagta 120
taatataata aacttcttgc ttaaattgaa tttctatatt agtggttaat tgcagtttat 180
taaagggatc attatcagta atttcatagc aactgttcta gtgttttgtg tttttaaaac 240
agaattagga atttgagata tctgattata tttttcatat gaatcacag 289

```

<210> 361

<211> 311

<212> DNA

<213> Homo sapiens

<400> 361

```

ctgttcagta tggcaaaggc cagacttact ccttcatcca ctctgctgcc ttgatgaggt 60
gaacacactg gaataagatg gagggcagga tacctgccaa agcctgagga atgagatgat 120
ctgaaacaat tgggcaaagg ctggacattt caaaaagctg acttccaact gcagtttatg 180
ggtatagaat ttgatgcttc cctcaagtcc tgactgctct ttctgaggca gccaggctag 240
gccaagaaat gagctgctcc agcttctcca gagcacagca gcctcccagg gcctgtcagc 300
atctgcagca g 311

```

<210> 362

<211> 496
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14
 <223> n = A,T,C or G

<400> 362
 ccagtttcta aaanaatgca catttaaaga gaagcatcta ccacggcttt aaaacaaaac 60
 aactctgaga tgaacaatat gtgttatact cagagattaa caatctcaat catacatact 120
 gattctttca gacattttaat aaccactaca tttttttgca ttaatgaagt ttgactatat 180
 gtgtaaaggg actaaatatt ttgcaacag cctgttcttt gttcattctt ttctggatag 240
 cgtgtcctct gtattgcggt agattttatac attctgttgc ctaaatatgt gtgtaaaatg 300
 agctgataaa ctggagtact acttaaaaaa aagtctgtga ttataagat gcatatgctt 360
 tctatgtgaa tataagcttg tgcacaatgt ttaaaagaaa aacaatgaat tagaagagat 420
 cccccgtccc ccagtctgac atatttcata cagaatgttt aaaagaaaaa ctctgctagt 480
 cttggcaaac atttgg 496

<210> 363
 <211> 673
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16
 <223> n = A,T,C or G

<400> 363
 ccaagagggga gataanacaa acttctcaaa caaaaagaaa agaaaaacga atgattcatc 60
 tgctttaatc agtgtgatta atgcagcacc cattgccccg ggaaccggtt ctgctgtact 120
 atctggatac taaaatgtta cggaagtagc tctttgttct ccctcactct gcccttagtt 180
 aatagaaatt cagactcgcc aagtaaggct ttgtgcatag tgtcttcatg tgcggtatag 240
 ttgagcgcgt tcttagcagt tggcttcatg gacagctcat tagtgttttg acttttctta 300
 cccagcggtta attgaattct tgctttttaga caacttcctt ttgtagtgg tgaaccttgc 360
 ccttttagtac agttcaagtg aatctggata attgttcatc ttgtctttag cttagatacc 420
 atgtagtggt ctgtggctac aggaagctgg ttctgtctgc ttccacagtc tgcttaaaaa 480
 actgtctgac ttcgtgaata tagagaccaa gtttaccact tctgatgaag agaccaatta 540
 agattcattc ctcatctgtt ttctttccag tgggagaaga gtcccatga aataagatga 600
 aactgattcc atgcactagt acatgtaggc ttctcccttg cgcaaagctt aacaatttgt 660
 aggaaacttt ggg 673

<210> 364
 <211> 495
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13
 <223> n = A,T,C or G

<400> 364

```

ccaaatgttt gcncaagact agcagagttt ttctttttaa cattctgtat gaaatatgtc 60
agactggggg acggggggatc tcttctaatt cattgttttt cttttaaaaca ttgtgcacaa 120
gcttatattc acatagaaag catatacatc ttataaatca cagacttttt tttaagtagt 180
actccagttt atcagctcat tttacacaca tathtagga acagaatgta taaatctacc 240
gcaatacaga ggacacacta tccagaaaag aatgaacaaa gaacaggctg ttgcaaaaat 300
athtagtccc ttacacata tagtcaaact tcattaatgc aaaaaatgta gtggttatta 360
aatgtctgaa agaatcagta tgtatgattg agattgttaa tctctgagta taacacatat 420
tgttcatctc agagttgttt tgtttttaaag ccgtggtaga tgcttctctt taaatgtgca 480
tttttttagaa actgg                                     495

```

<210> 365

<211> 291

<212> DNA

<213> Homo sapiens

<400> 365

```

aactgacaag cccttgcgcc tgcctctcca ggatgtctac aaaattgggtg gtattgggtac 60
tgttcctgtt ggcccagagt gagactgggtg ttctcaaacc cggatatgggtg gtcacctttg 120
ctccagtcaa cgttacaacg gaagtaaaat ctgtcgaaat gcaccatgaa gctttgagtg 180
aagctcttcc tggggacaat gtgggcttca atgtcaagaa tgtgtctgtc aaggatgttc 240
gtcgtggcaa cgttgctggt gacagcaaaa atgacccacc aatggaagca g 291

```

<210> 366

<211> 277

<212> DNA

<213> Homo sapiens

<400> 366

```

ctggatgggtg cctcagaagg tgcattctgc ttctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttgtttg actccttggg ggtgacatgg 120
gggtagcccg cagtcacccc tgctcttggc tggcacggca cactggtttg cagacaggcc 180
cacgtactcc tcagcagagc tggaggacaa gcaaggccag gaccagcccc agcatgcaga 240
gcgctctggc agccatgacc accgtgggct ccgggac 277

```

<210> 367

<211> 311

<212> DNA

<213> Homo sapiens

<400> 367

```

ccagagctgc ggggcctcag tacacggagc tgttccggat gccacagcac agcaccatgc 60
tcaggatcat ctogaagatc atgatcacag cgaccacgat ggcagcaatg ccgatgaggt 120
acagcttccc ggagaagagg tcatcgatct tctgggtggca gtcctccttg aagaggttgc 180
tgatgatgtt gctgcccagag ggacacaaat tgttcttgag cactgaggtg gtcaaagcag 240
tcagtgtgct ggagccacag cagtcaagcg tctcgtggaa ggtcttcacc acagccttgg 300
cgttgttggc g                                     311

```

<210> 368

<211> 384

<212> DNA

<213> Homo sapiens

<400> 368

```

ccaaaggggt ctctagctgc tgctctgctg ctcttgcctca tggatgagtt tggcgatggg 60
gccggtgatg ccgcctatca aggtccagta ctcatcgaag ctgatgcgcc catcaggatt 120
ggcatccagg ttctggatga gcttatccgc agccttccgg ttccctgtgt ccgacagcat 180
gtggttcagc tctttctgga gcatctcgcg gaagctgctc ttgctgatct tgttcttgac 240
caggctgtac ctagacacat atttgtagaa gttttccacc aggacaatga ctgccttctc 300
cagctccgtg tagcaagtct gacatctccc tgcttcgcct gctggcgggg cctaaggcgg 360
gggccaagcc cagttacagc ccag                                     384

```

```

<210> 369
<211> 216
<212> DNA
<213> Homo sapiens

```

```

<400> 369
ccaagtgcc ggtggctttc agcagcttcc tacgatcagc cgaagaaagc agaagctctg 60
gaggctgcc tcgagaacct caatgaagcc aagaactatt ttgcaaagg tgaactgcaa 120
gagcgcatca gggacgtcgt ttacttccag gccagactct accataccct ggggaagacc 180
caggagagga accggtgtgc gatgctcttc cggcag                                     216

```

```

<210> 370
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 370
ctggtcctt cttttgtggt cgtttggggg atgggctggt ttgggggtta ggtgcagaga 60
atggtttggg gccactgcgt actggaccac tctgagcctt cagggcaggg ttcttgtgag 120
tcttcatgtc atcagataca tgtttcaggg catgtgtaat gctctcccc tgattaatct 180
gcgcgaaacag tgctgagcgg gaagcagact catctgagcc tgaactggta gagactggg 240
gaggaggggg gcctggtgga gggggaggag gacctgatcc ggcagagggt ccagatggca 300
gtccgctcag ttcttttgcc acaggccccg ttttgctcca ggccagtccg gtggtatgga 360
actccttaat gtaagcctgc agctctgtcc atatacttaa ataagctttg acccagtcta 420
catgcttctt atccacatct ttgtactctt tgaggactcg gtttgtataa aacatggcgg 480
catcattcat ttctttcgca taagggccag gcttgggagc catagccacc cagcccaggg 540
cctggatact ttcgctgaca g                                     561

```

```

<210> 371
<211> 518
<212> DNA
<213> Homo sapiens

```

```

<400> 371
cccacttcca tcgctctctg gtgtgaggca cagcgagggc agcatctgga ggagctctgc 60
agcctccaca cctaccacga cctcccaggg ctgggctcag gaaaaaccag ccactgcttt 120
acaggacagg gggttgaagc tgagccccgc ctcacacca ccccatgca ctcaaagatt 180
ggattttaca gctacttgca attcaaaatt cagaagaata aaaaatggga acatacagaa 240
ctctaaaaga tagacatcag aaattgttaa gttaagcttt ttcaaaaaat cagcaattcc 300
ccagcgtagt caagggtgga cactgcacgc tctggcatga tgggatggcg accgggcaag 360
ctttcttcc tgcagatgctc tgctgcttga gagctattgc tttgttaaga tataaaaagg 420
ggtttctttt tgtctttctg taagggtggac ttccagcttt tgattgaaag tcctagggtg 480
attctatttc tgctgtgatt tatctgctga aagctcag                                     518

```

```

<210> 372
<211> 335

```

<212> DNA
<213> Homo sapiens

<400> 372

```
ctggaggctg ggtgcaccct gccagatcc acacctgtac ccggcggaaggaggctcatgg 60
gcattgaaga cgggtggtgaa aaagccaaag ggaaaagcac caacacccaaa tgagaagtgg 120
aagcccccggtatcaccaaaa tggctggaat cccctctgtc tctccggagc tgggtctctgg 180
ccctggggggc ggggtggtgagt ttttaatctg ggatcctggg gcttctggct ccctcgccca 240
taaagcggga caaccttctc tctgctgac ccagctttac atactggaca ctcttgccgt 300
tctggccgtg tctccagcca ctgatgaaga catgg 335
```

<210> 373
<211> 467
<212> DNA
<213> Homo sapiens

<400> 373

```
ccactagctg aatcttgaca tggaagggtt tagctaattgc caagtggaga tgcagaaaat 60
gctaagttga cttaggggct gtgcacagga actaaaaggc aggaaagtac taaatattgc 120
tgagagcatc caccacagga aggactttac cttccaggag ctccaaactg gcaccacccc 180
cagtgtctac atggctgact ttatcctccg tgttccattt ggcacagcaa gtggcagtgt 240
ctccaccacc tatgatgggt atgcagcccc tagaagtggc tttcaccacc tcatccatga 300
gagctttggt tccccgggca aaagcttccc attcaaatac cccacagga ccattccaca 360
caatctgctt agcccagagt acagcctcag catacttctt gctgctttca ggaccacagt 420
ccaagcccat ccagccagca ggtacgccag aagccacagt ggcttgg 467
```

<210> 374
<211> 284
<212> DNA
<213> Homo sapiens

<400> 374

```
tttccgtaaa agcgtgtaac aagggtgtaa atatttataa ttttttatac ctgttgtgag 60
acccgagggg cggcggcgcg gttttttatg gtgacacaaa tgtatatattt gctaacagca 120
attccaggct cagtattgtg accgcggagc cacaggggac cccacgcaca ttccgttgcc 180
ttaccgatg gcttgtgacg cggagagaac cgattaaaac cgtttgagaa actcctccct 240
tgtctagccc tgtgttcgct gtggacgctg tagaggcagg ttgg 284
```

<210> 375
<211> 307
<212> DNA
<213> Homo sapiens

<400> 375

```
cctactcttc tccgtccatt gtactatctg cccgtggtgg ggatggcagt aggatcatat 60
ttgatgactt ccgagaagca tattattggc tccgtcataa tactccagag gatgcgaagg 120
tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
tggaacaata cacatggaat aatacccata tttctcgagt agggcaggca atggcgtcca 240
cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctggtcattt 300
ttggagg 307
```

<210> 376
<211> 650
<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 7, 10, 13

<223> n = A,T,C or G

<400> 376

```
ccattgnctn ctnacgtgat gtcacatcatc gccaggatcat cttggcaaaa gtcggagcat 60
ttctcagtc ctagcaaagta gcccttctctg ttggagcacc ggaagagacg tgtgtgtttc 120
atgtactcgg catcgatcatc atagggtctc tgtgccccaa tgccccacca gaagaagttc 180
tcaggctcct caccttcggt gataacctgc ttgctgtagg aggtgtcaaa catggtgttc 240
aggatgtctt ctgccaaactt ggcttcgtca gggctctgatg cccggccccac ccaggcatac 300
acgatgccct gggtgtctctc actctcaaag ggaaccttga ggatgaagca gaactcggag 360
ttgaggaggc tggagtcggt gttgatctgg atgcaccggg tgcagagggc gctgccgttg 420
gtgcggatct ggtagaggct gggctgttgg gcgccctgga ccgccttcct cttgccccgg 480
tggatgatga acttcctctt gaaatgggac aggaacttgg ggttctcctg ctgctgcgtc 540
atgcgtacca cctccagctt cccagggaag aggctctcga acttcttttg caggctgaag 600
gtgaaggatga cccacccata ttgggaggct ttcacggccc tgccagaagt 650
```

<210> 377

<211> 306

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 38

<223> n = A,T,C or G

<400> 377

```
tctagatgca tgctcgagcg gccgccagtg tgatgganat ctgcagaatt cgcccttcga 60
gcggccgccc gggcaggttc ggggtctgcc ttcacctgcc aggcccttcc ccgctagctt 120
ggggcgagca gagctgcgtc cagtggaaact aaagccgttc caggattatc aaaaactgag 180
cagcaacctt gggggacctg gatcatcacg gactccccca actggaaggc ccttctctgg 240
cctcaattcc cgtctcaagg ccacgccttc cacctacagt ggagtcttcc gcacccagcg 300
cgtcga 306
```

<210> 378

<211> 199

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6

<223> n = A,T,C or G

<400> 378

```
ccacangtgg cacttgggtg tggctcctct gttatttgtc ctcatgtgag aaagcagatc 60
atctccaaat cttgccatth gtatactttt ggtggagact tggatgtcat atcttctttg 120
ttttgggttt tcttccctag cttattttgt ggcttttaaa gaagtggatt gtattgtgag 180
atcctgtgat tcctgggtg 199
```


<210> 379
 <211> 216
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 379
 ccagggcang tcatcaagag gggcattgtc ttgcatgcgg cctgccgtgt ccaccagcac 60
 cacgtcaaag ccttggttac gtgcaaaagc aatggcttcc atggcaatgc cagcagcatc 120
 cttgccatag cccttttcaa acaactgcac catgggtgcgg ccaccatgct tctctggagg 180
 gtgtagggca ctcaaacgcc ggggtgtgtgt acgcag 216

<210> 380
 <211> 555
 <212> DNA
 <213> Homo sapiens

<400> 380
 ccatgggcct tcctttccac taaaaggaat tccgaacagc aaaaagaagg tcttgagata 60
 gtgaaaatgg tgatgatatc tttagaaggt gaagatgggt tggatgaaat ttattcattc 120
 agtgagagtc tgagaaaact gtgcgtcttc aagaaaattg agaggcattc cattcactgg 180
 ccctgccgac tgaccattgg ctccaatttg tctataagga ttgcagccta taaatcgatt 240
 ctacaggaga gagttaaaaa gacttggaca gttgtggatg caaaaaccct aaaaaaagaa 300
 gatatacaaa aagaaacagt ttattgctta aatgatgatg atgaaactga agtttttaaaa 360
 gaggatatta ttcaagggtt ccgctatgga agtgatatag ttccctttctc taaagtggat 420
 gaggaacaaa tgaaatataa atcggagggg aagtgcctct ctgttttggg attttgtaaa 480
 tcttctcagg gtcagagaag attcttcatg ggaaatcaag ttctaaaggc tttgccccaa 540
 gagatgatga ggcag 555

<210> 381
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 381
 ctgcaccagg tgggcctcta ggtcccatta agcccattgg tccagggcca agtccaactc 60
 cttttccatc atactgagca gcaaagttcc caccgagacc agggggggcca ggaggaccag 120
 gtggaccagg agggcctgtg ggaccatctt caccatctct gcctgggggg cctggtggac 180
 ccctttctcc acgtggtcct ctatctccgg ctggggccct tcttacagtt tcctcttgta 240
 aagattggca tgttgctagg cataagggtta ctgcaagcag caacaaagtc cgcgtatcca 300
 caaagctgag catgtctagc acttagacat gcagactcct tgtgtcgcag agcccctggg 360
 tcaccggcgg aggtatcacc tggcggggcgc gggcatgcag tcgtgg 406

<210> 382
 <211> 528
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 18, 20
 <223> n = A,T,C or G

<400> 382

```
ctgagcagtt tgtgggtntn tcttcccgca agtttcagga agtattcaca aaagaaaaat 60
acattttttc ccccgaggggt ggggcaagga cagtggagag agtgctagga aatgagtccc 120
ctgggaaagg ggaccggggc gtgatgttaa atatctccgg ctcccaagtg actggatttg 180
cctaggacct tcagaccaac agacttcaga cctcagacc tgccccgggg ccagggtggag 240
aaagtgaggg ccgtacaagg aagtgaatt ctgagttgtt ggggctaagc ctgaccccct 300
ctccatgctc cccgccccaa cccactctgg cctcagtaga tttttttttc agttgtgggt 360
gttgcccagg ctggagtgc gtagcgccat cttggctcac tgcacctcca cttccggggc 420
tcaagcgatt ctccagcctc agcctcctga gtagctagga ctgcaggtgc tccaccacgc 480
ccggctaatt tttgtatttt tagtagagat ggggtttccc catgttgg 528
```

<210> 383
 <211> 335
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 321
 <223> n = A,T,C or G

<400> 383

```
ccatnttgag tctactcctg cgtcttgtgc cctagcacc cgagaaccgt cagtttgagc 60
cagatggaag ctgagctgaa cacattacga tggatgatgg aaacataaga ctatcaagaa 120
atccaagtgg taatgggcga agtttattca gcatccggca atggacttat cgtagttggg 180
gaaacgggtg ttccgaataa tatcctggaa gttatcagga cacctatttt aaatataggc 240
ctgaattttg taaagtaata tttaaggtgg tccgtgataa tttaaataaaa tgcttaattc 300
atgtggcgaa aaaaaaaaaa naaaaaaaaaa aaaaa 335
```

<210> 384
 <211> 333
 <212> DNA
 <213> Homo sapiens

<400> 384

```
agtccaatac ggctattggg gttgtagcag ctttcagagg aaattagtg tctgggcttg 60
cctccagctc cccaggggca gccccagtag ctacactgtc cagacagcac aagaccaggc 120
tggtgtcacg tccatccgag cgctgcctca gggatcgata aagtttctact gcagaaagtc 180
tccactgcgg tatgctgaca tctgccctga accttcaccc tacagcatta caggctttaa 240
tcagattctg ctggaaagac acaggctgat ccacgtgacc tcttctgcct tcaactgggct 300
gggggtgatcc ttgggtgcct tgtttccaca agg 333
```

<210> 385
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 385

```
ctgtgacacc tcaggttgaa agggctcttc tccttgaaca cccaccgagg ggcctggagc 60
aacagccagc cgatatggac ttctagctgc accgggtcac tgagggtgga gaggtttgtc 120
tggcacctgt actctccact gtcgtcgact gtggcagcgt caatgaagta gctcgaggcc 180
```

```

tggcttgaga tgaggctctc attgtgaaac cactgtgtgg aattgtcctc aggggagtag 240
gctccctggc acttcagagt cacactgtcc ttctcgagca ccctgtacca ttgaggctcc 300
aggaacacca cagcctttgg gagatcttca gtccgcatgc caa 343

```

```

<210> 386
<211> 244
<212> DNA
<213> Homo sapiens

```

```

<400> 386
tattctttga ttcttggcaa ataggtgaga gaactaatag caaccaggca actgaggacg 60
aagtcaaaaa gtcggtaaca gaagaatgga atcagccaac ccacttgata agaaattgct 120
ccataaacca gcattgaact gattataaac ataagaacag agacggcaaa aagaacacag 180
gcattatcag ccattctctc agacgaatag taattaccga tgacttcata ctgaatgttg 240
acag 244

```

```

<210> 387
<211> 504
<212> DNA
<213> Homo sapiens

```

```

<400> 387
atctggagtc cagcctcagg gatgcgctac ttccattct ctgcattgaa cattcgttct 60
gtcagcatcc gtcacagctt cactgcatca gcggcaaaact tgcggatccc gtcagagagc 120
ttctccacag ccatctggtc ctgcttgtgc aaccaacgga aagacttctc atccaggtgg 180
atTTTTTcca ggtcactggc ttggggccgcc ttggctgaga gcacaggcac cagcttggcg 240
ttgtcctgca gcagctctcc caggagcttg ggtgggatgg tgaggaagtc acagccggcc 300
agtgccttga tctcgcccgt gttgcggaag gaggcgcccc tgacaatggg tttgtagcta 360
aacttcttgt agtagttgta gatttttagtg acactcttta cccaggggtc ttccaggggc 420
tcataggatt tcttgtcggg gtttgccaca tgccaatcaa ggatgcgccc aacaaatggg 480
gagatgaggg tcacaccgcg ctcg 504

```

```

<210> 388
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14, 199, 210, 218, 231, 267, 271, 290, 330, 342, 383, 390,
395, 399, 405, 414
<223> n = A,T,C or G

```

```

<400> 388
gccaaagtgc tgcntgaatt ccactccctt ggttttccgc tgcccagcgt tgctgtttgc 60
gtggaggggtg gggggagctc agtggcaggg aatcagcggg ccgtgggggc gtggggacgg 120
gaacatgtgc ccgaccgctc catccctcc tctccttag gatgcataac ctaccttgct 180
tttttttttt taaattttnt ttccaggtan agtagctntt tgtacataaa naatacttga 240
aaaattaatt gtatgatgta tgaaaanaca nagtctccta gttttgtatn ttgttgtatg 300
actgccatga gttccaccaa aaagccactn tattttgggc tntgtgacat tttaaatgcg 360
tgacaaaagt gagcaaataa agngaggaan aaatntatnt atganataat atanattgta 420
ttgaaatcta aaaaaaaaaa aaaaaaaaaa 450

```

```

<210> 389

```

<211> 297
 <212> DNA
 <213> Homo sapiens

<400> 389
 cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
 acagcgtttc gggaggtttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 390
 <211> 223
 <212> DNA
 <213> Homo sapiens

<400> 390
 ctgggctgga gagttggtgc tggcaaaaca gtccttcccc tggggccggt tcttaccag 60
 gtccagagaa accaacgcgg gatgtcagac ttcacaaaaa ggactttctg gttgccctg 120
 gctggcttcc tggaggcggt cgcctctagt ttctcaggga tggagcgaga gcccagccag 180
 agaacagtaa gaggagctgc tctcctatct gcactcaccc agg 223

<210> 391
 <211> 365
 <212> DNA
 <213> Homo sapiens

<400> 391
 ctgaggaaga aatgaaaaaa gaccctgtcc ctcatggccc gccactggc ctctgtgaa 60
 ctctgtcctg ttgccaaacc cagatgaagt cagccaaaaa gtgctttcca catcctctct 120
 ctggggctgc ccagcctgac cgtaggggat ccaactggcag agccaagggt gatgctggtg 180
 cctgaagctg gaagccagca ggacatgaga cccctcctgt agcaggaagt ggttctagaa 240
 ctcccagcag aacagaacgg aaaaggagct gattggggat agaagagtt ctgctaaaca 300
 gccagatgct ctgagagagg tgacactgga ctgtctcgga ggtgtgtgca gatggctaca 360
 ggtgg 365

<210> 392
 <211> 302
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 28
 <223> n = A,T,C or G

<400> 392
 ccaagagcta caatgagcag cgcattcanga cagaacgtgc aggttttttga gttccagttg 60
 actgcagagg acatgaaagc catagatggc ctagacagaa atctccacta ttttaacagt 120
 gatagttttg ctagccaccc taattatcca tattcagatg aatattaaca tggagagctt 180
 tgctgatgt ctaccagaag ccctgtgtgt ggatggtgac gcagaggacg tctctatgcc 240
 ggtgactgga catatcacct ctacttaaata ccgtcctgtt tagcgacttc agtcaactac 300
 ag 302

<210> 393
 <211> 213
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13, 19
 <223> n = A,T,C or G

<400> 393
 ccaataatca agnacaaana ctggatttga ggatggatca gttctgaaac agtttctttc 60
 tgaaacagag aaaatgtccc ctgaagacag agcaaaatgc tttggaaaga atgaggccat 120
 acaggcagcc catgatgccg tggcacagga aggccaatgt cgggtagatg acaagggtgaa 180
 tttccatttt attctgttta acaacgtgga tgg 213

<210> 394
 <211> 334
 <212> DNA
 <213> Homo sapiens

<400> 394
 cctacccata atccagagag gcttgcccag aggaggacta cgtggggggac gtgccaccag 60
 aaccctactt gggggcgagg tgctactccg aggtcaaaac ctgctccgag gtggacgagc 120
 cgtagctccc cgaatgggct taagaagagg tgggtgttca ggtcgtggag gtcctgggag 180
 agggggccta gggcgtggag ctatgggtcg tggcggaatc ggtggtagag gtcgggggtat 240
 gataggctcg ggaagagggg gctttggagg ccgaggccga ggccgtggac gagggagagg 300
 tgcccttgct cgccctgtat tgaccaagga gcag 334

<210> 395
 <211> 174
 <212> DNA
 <213> Homo sapiens

<400> 395
 ccagatgagg aaaaaaatta ggaaggagat gaagttttcc aaatttcatg gtatatgctg 60
 cacttcccca accttcactc tccatgtagc ctactgggtc tactattcca caaagtggct 120
 caacctccaa atgacctctg gtttaccctt attaaaatcc caaaggactt tcag 174

<210> 396
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 20
 <223> n = A,T,C or G

<400> 396
 ctgcaaagcc ttgtgtaacn ttctccagca tttggaccca gtacgtgaaa gccacaca 60
 cgttcattgt ctttagtatt acagattatt tttgcataac atttggtgtt atctcttgac 120
 ggaatcgtcc attccaatgg 140

<210> 397
 <211> 318
 <212> DNA
 <213> Homo sapiens

<400> 397
 cctcgcctgg agggcccccg ggcagcacag ggaggacgag cttgtccagc agaggggtctg 60
 gcagaggggtc ccgcagaggt ttgggcaggg ggtctgacat ccctggctcc tgctctggct 120
 ctggctgccg ggatttgacac agggccaggt gcatacagat gccgtttgag tcagtctggg 180
 tctggaagta gtcgatgacc agggggaagt agtcgtcaag cacttggttg cactggggca 240
 tgagcagctt caaggggagg acgttgact cctgctccag gaacttcctc atcgtgtcct 300
 ggaaaatggc ctcccttg 318

<210> 398
 <211> 517
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 398
 ccttncttcg ccatccattc atcgaccctc tccagcactt gctgcaggct tggctgacca 60
 tccaccatgg ctgaataat cccggtgagc tctgtacaga atggggtaag ctgtggatgg 120
 actacaggct ggacatacat gtgaaaggta gactcaatct ccatgggtccg gccatttagc 180
 tttaggatgg ggaactcgat gatttcctga ggatgaatct gtggcttgct gcacgtggcc 240
 tcaaagtcca gcactaaaaa gtagtgtatc ctctggagag ggaaggacac cattgccgcc 300
 atggatgcgc caaagccgtg ggccgccagc tttctgggtg atatggagca gaactccgga 360
 acaccacagg gagaaaataa gtgggagccc agcacttttc ttgctcttga aagtaaatac 420
 gaagaaaatc gagctgctcc agtctgtaaa ggtgctagca ttgaacatcc agaagcatct 480
 aaaactctcc ttacttcgaa gatgcccaaga ccggcag 517

<210> 399
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 399
 ccaacctcag gcaacgggtg gagcagtttg ccagggcctt ccccatgcct ggttttgatg 60
 agcattgaag gcacctggga aatgaggccc acagactcaa agttactctc cttcccccta 120
 cctgggccag tgaaatagaa agcctttcta ttttttggtg cgggagggaa gacctctcac 180
 ttagggcaag agccaggtat agtctccctt ccagaaattt gtaactgaga agatcttttc 240
 tttttccttt tttcggtaac aagacttaga aggagggccc aggcactttc tgtttgaacc 300
 cctgtcatga tcacagtgtc agagacgcg 329

<210> 400
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 400
 ctggcttcac tgctcaggtg attatcctga accatccagg ccaaataagc gccggctatg 60

```

cccctgtatt ggattgccac acggctcaca ttgcatgcaa gtttgctgag ctgaaggaaa 120
agattgatcg ccgttctggg aaaaagctgg aagatggccc taaattcttg aagtctgggtg 180
atgctgccat tgttgatatg gttcctggca agcccatgtg tgttgagagc ttctcagact 240
atccaccttt gggtcgcttt gctgttcgtg atatgagaca gacagttgcg gtgggtgtca 300
tcaaagcagt ggacaagaag ctgctggagc tggcaaggtc accaagtctg cccagaaagc 360
tcagaagcta aatgaatatt atccctaata cctgccaccc cactcttaat cagtgggtgga 420
agaacggctc agaactgttt gtttcaattg g                                     451

```

```

<210> 401
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<400> 401
ccaggaagca ggccagggga ttggcagcac tgcccagcac cacagccagg tggtaggcca 60
gacgcccgtg gggtaagcag gaaaagctct gcacggcagg cagcacgcca ttggtcagcg 120
cgttgggtggc ggccaacagg cccagcaggc aggcactgcg ggctgataga agctgatagg 180

```

```

<210> 402
<211> 385
<212> DNA
<213> Homo sapiens

```

```

<400> 402
ccaggccacc tgtgcggggc tcctcgatgt ggaaggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgttgtag ggcatgctga 120
agtccggtgt cggcagggtc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggctgttga agaggggact ctcttcccag tccactggct 240
tggctgctac catgctgggc acaagggcgc tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggtccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttgggtgac tgagttggcc ggcag                                     385

```

```

<210> 403
<211> 440
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 403
ctgtttaacc agnaaccgga ggggtcaccc cccacagaat gtacatgaaa cactagagga 60
ctgcatgttt ttccctgaga gaagcgtaag acaaacagaa gtcaaaaagt agtcactggg 120
agcgccatcc ttctaagcaa atcctccctt tcccttttgg aggatttgcc cgaactacgt 180
agccagtcag cacttagacc acctgcctcc tccccccct ataaaccac cactcccctc 240
ctcctttccc aaaccacttg ggggtgccta agccctcact gcccgaagcc caaaatatca 300
gctaagatcc ttgtcagtat ttccacagtc atacctaata aattgggaag tggggcccct 360
aaaaaccaat tcacatctat gcacttggtt ccactggatt tggcagacag gcttttttag 420
ttaccgtaac cagatcttaa                                     440

```

```

<210> 404

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<211> 239
 <212> DNA
 <213> Homo sapiens

<400> 404
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 tctcctatatt ccacaattcg gagccccagg tcttgacagg ctttgccggac tccatcgacc 120
 tctggcctac gagcggggct ccagggccgc gtgattaggg ccgtgtcccc ttggatcacg 180
 gccgtgtcgc caagcagcgg tcccagcggc aatgactcct caggtggcag ttctagcag 239

<210> 405
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 405
 ctggagaggc agcccttcac cggatgcccc gctccgtgcc cctgcggggc ccagcacagt 60
 ttaccttctc cccccacggc ggtcccatct actctgtgag ctgttcccc ttccacagga 120
 atctcttctc gagcgtctgg actgacgggc atgtccacct gtactccatg ctgcaggccc 180
 ctcccttgac ttcgctgcag ctctccctca agtatctgtt tgctgtgcgc tgggtccccag 240
 tgcggccctt ggtttttgca g 261

<210> 406
 <211> 641
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 13
 <223> n = A,T,C or G

<400> 406
 ctgctcccgg gcntgggtggc agcaagtaga catcgggcct gtgcaggggc acccccttgg 60
 gccgggagat ggtctgcttc agtggcgagg gcaggctctgt gtgggtcacg gtgcacgtga 120
 acctctcccc ggaattccag tcatectcgc agatgctggc ctacccacag gcgctgaaag 180
 tggcattggg gtggctctcg gagatgttgg tgtgggtttt cacagcttcg ccattctggc 240
 ggggtccagga gatggtcacg ctgtcatagg tggtcaggtc tgtgaccagg caggtcaact 300
 tgggtggactt ggtgaggaag atgctggcaa aggatggggg gatggcgaag acccggtatg 360
 ctgtgtcttg atcggggaca cacatggagg acgcattctg ctggaaggtc agggccctgt 420
 gatccacgcg gcagggtgaac atgctctggc tgagccagtc gctctctttg atggtcagtg 480
 tgctggtcac cttgtaggtc gtgggcccag actctttggc ctacgcctgc acctgggtccg 540
 tgggtgacgc agaccccacc tgcttccccct cgcgcagcca ggacacctga atctgccggg 600
 gactgaaacc cgtggcctgg cagatgagct tggacttgcg g 641

<210> 407
 <211> 173
 <212> DNA
 <213> Homo sapiens

<400> 407
 ccagggtactg gcacaatcat gtctggatgg ggggtgggtgt gtctgttagg cagagaaaca 60
 ggaaattgtc gtagtcagta tcgagcagcg tggcctcgtt cgccaccgta tagttgatct 120
 tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173

<210> 408
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 408
 ccactgtctg cagccatggc agaaagtgct caaagtccag caccttcaca ttcattctcat 60
 cactcttggg gttccccagg accttgagca cctcggcggt ggtagggttc tggcccaggg 120
 ccctcatcac atccccacac tggctgtaca ggatcttgcc atcac 165

<210> 409
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 409
 ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggccgcg 60
 tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctcccgctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggt cccgggtaga agtcacctat gagacacacc 180
 agtgtggcct tggtggcttg aagctcctca gaggaggcg ggaacagagt gaccgagggg 240
 gcagccttgg gctgaccaag gacggtcagc ttggtccctc cgccaaatac cgccggataa 300
 gcaccactgt tgtctgctga ttgacagaa 329

<210> 410
 <211> 235
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 410
 ccatcagnga gaaaggtggt tgtcagttgt ttcacaaacc agattgagga ggacaaactg 60
 ctctgccaat ttctggattt ctttattttc agcaaacact ttctttaaag cttgactgtg 120
 tgggcactca tccaagtgat gaataatcat caagggtttg ttgcttgtct tggatttata 180
 tagagctttt tcatatgtct gagtccagat gagttgggtca ccccaacctc tggag 235

<210> 411
 <211> 294
 <212> DNA
 <213> Homo sapiens

<400> 411
 aattaaggga agatgaagat gataaaacag ttttggatct tgctgtgggt ttgtttgaaa 60
 cagcaacgct tcggtcaggg tatctttttac cagacactaa agcatatgga gatagaatag 120
 aaagaatgct tcgcctcagt ttgaacattg accctgatgc aaagggtggaa gaagagcctg 180
 aagaagaacc tgaagagaca gcagaagaca caacagaaga cacagagcaa gacgaagatg 240
 aagaaatgga tgtgggaaca gatgaagaag aagaaacagc aaaggaatct acag 294

<210> 412
 <211> 433

<212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 135, 138, 153, 162, 187, 206, 208, 212, 214, 219, 224, 237,
 254, 271, 295, 303, 330, 336, 348, 358, 364, 367, 375, 394,
 433

<223> n = A,T,C or G

<400> 412

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cctgagaagc cagaggcagg tggagagggg gtggaaagtg agcagcgggc tgggctggag 60
ccgcacacgc tctcctccca tgttaaatac cacctttaga aaaattcaca agtccccatc 120
cacaacacac aaanaanaaa aaatttcagg gantaaaaat anactttgaa caaaaaggaa 180
catttgntgg cctggggggg catctnantt tntntagcnc cagngattcc ctccccnccc 240
cacccatcac atanatgtaa cacctttggt ntaaaatggg gagccgtttc caccttgccc 300
ccntccccgc ccccaggcag ttgccccggn gacacntcaa gacaggancg aggtagtntt 360
tcancancac agttncacaa ggaacagaac agtntctccc gccagccct gcggcacaag 420
ggattgacac gcn 433
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<210> 413

<211> 494

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17

<223> n = A,T,C or G

<400> 413

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attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagecggctg caccatcggt atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttggtc cggttggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggtt ggggttctgct ccgaggtcgc cccaaccgaa atttttaatg caggtttggt 360
agtttaggac ctgtgggttt gttaggtagt gtttgcatta ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgccccgc tcttcacggg cagggtcaatt tcactgggta 480
aaagtaagag acag 494
```

<210> 414

<211> 294

<212> DNA

<213> Homo sapiens

<400> 414

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ctgggcggat agcaccgggc atatttttga atggatgagg tctggcaccc tgagcagtcc 60
agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacgggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggaacagct cgtacacctg ccatttctct catatactgg ttagtgaggt 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcctt gtgg 294
```

<210> 415

<211> 421
 <212> DNA
 <213> Homo sapiens

<400> 415
 ccttgcccct gccctcccac gaatgggttaa tatatatgta gatatatatt ttagcagtga 60
 cattcccaga gagccccaga gctctcaagc tcctttctgt caggggtggg gggtcagcct 120
 gtctgtcac ctctgagggtg cctgctggca tcctctcccc catgcttact aatacattcc 180
 cttccccata gccatcaaaa ctggaccaac tggcctcttc ctttcccctg ggacccaaaat 240
 ttaggggcct cagtcctca ccgccatgcc ctggcctatt ctgtctctcc ttcttcccccc 300
 tggcctgttc tgtctctgag ctctgtgtcc tcggttcatt ccatggctgg gagtcactga 360
 tgctgcctct gccttctgat gctggactgg ccttgcttct acaagtatgc ttctcccaca 420
 g 421

<210> 416
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 416
 ccactttctt tcccacnctg gaaggcggca tctatgactt cattggggag ttcattgaagg 60
 ccagcgtgga tgtggcagac ctgataggtc taaacctgt catgtcccgg aatgccggca 120
 agggagagta caagatcatg gttgctgccc tgggctgggc cactgctgag cttattatgt 180
 cccgctgcac tcccctatgg gtccggagccc ggggcattga gtttgactgg aagtacatcc 240
 agatgagcat agactccaac atcagtctgg tccattacat cgtcgcgtct gctcaggtct 300
 ggatgataac acgctatgat ctgtaccaca ccttccggcc gg 342

<210> 417
 <211> 389
 <212> DNA
 <213> Homo sapiens

<400> 417
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 agagcaaaca cagatcgcag gtagccctgg agctgaggaa tagctttgat ttttggtaaa 120
 atttgtgagt ccacagcttt ctgatcaatc ttgcgctgct ccgtaatctc atatttctct 180
 ttttctgtgt cgaagatctc accttcctgg tgtctgggct tccgcagctt cttcttcttg 240
 aagtaagcat cagtaagatg ttttgggatt tttacattgc tgatatcgat tttgggtgaa 300
 gtggcaatga caaatttctg gtgtgttctt cgtagaggaa ctcgattgag gaccagaggt 360
 ccagtcacaa gtaataagcc actagccag 389

<210> 418
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 418
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 aagccgaatt cctggtctgg ggcaccaacg tccaaggggg ccacatcgat gatgggcagg 120

cgggaggtct tgggtgggttt gtattcaatc actgtcttgc cccaggctcc ggtgtgactc 180
 gtgcagccat cgacagtgc gctgtaggtg aagcggctgt tgccctcggc gcggatctcg 240
 atctcgttgg agccctggag gagcagggcc ttcttgaggt tgccagtctg ctggtccatg 300
 taggccacgc tgttttttgca gtggtaggtg atgttctggg agg 343

<210> 419
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 419
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 ccttttagtaa gttctcaagc cagaggctgg aggcagcagc taaatcagag gacagcatcc 120
 tcagtgaag tgagccattc ggggtggcat gtcactccag gaataaacac aacttagaaa 180
 caaatgattt cgtaggatag cacagtgcac tgggtgcactg tgaacctgag gccactgtgt 240
 caaactgtgc actgg 255

<210> 420
 <211> 261
 <212> DNA
 <213> Homo sapiens

<400> 420
 cttctgatga taaccaaccc ctagctacca ctctgtattc atcaggggag ggggtataaac 60
 cccacatgca agaagaaccc ttgccccagc tgtcaaattg gatggggatg ctagagtatt 120
 agtaaagggg aaaccctatg taagctgtta acagagttca caggggtagg gataaccct 180
 gttctccagc tcccaaattg gtcactttc ccagcttctt catccgttca tcaatgctgg 240
 caaagttccc ctcaactgtg g 261

<210> 421
 <211> 179
 <212> DNA
 <213> Homo sapiens

<400> 421
 ccttcctggt gttgtttcaa atgctgcttg atttctcgta acagatctgc atctatgtaa 60
 tacctttctt cagatctgac tgctccaaaa tgattctgca tcctgatttg agacatcaat 120
 tcatttagtc ggcccttgaa ctgagtaggt gcatttagtt caccctgaat cgtatccag 179

<210> 422
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 422
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 ctgccatgga gaggtctgga aaagctaagc aactgcgagc acttaggaaa tacgggaaga 120
 aggtgcaaac ggaggttctt cagaagaggc agcaggagaa agcccatatg atgaatgcta 180
 ttaagaaata tcagaaaggc ttctctgata aactggattt ccttgaggga gatcagaaac 240
 ctctggcaca gcacaagaag gcaggagcca aaggccagca gatgaggaag gggcccagtg 300
 ctaaacgcag gtataaaaac cagaagtttg gttttgggtg aaagaagaaa ggctcaaagt 360
 ggaacactcg ggagagctat gatgatgtat ctagcttccg ggccaagaca gctcatggca 420
 gagg 424

<210> 423
 <211> 256
 <212> DNA
 <213> Homo sapiens

<400> 423
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 gcttttggga gactggaaaa gggaagggtga ctgaaggctg tcaggattct tcaaggagaa 120
 tgaatactgg gaatcaagac aagactatac cttatccata ggcgcagggtg cacaggggga 180
 ggccataaag atcaaacatg catggatggg tcctcacgca gacacaccca cagaaggaca 240
 ctagcctgtg cacgcg 256

<210> 424
 <211> 330
 <212> DNA
 <213> Homo sapiens

<400> 424
 ccagccgcat gggagtggag gcagtcacgc ccttgctaga ggccaccccg gacacccag 60
 cttgcgtcgt gtcactgaac gggaaccacg ccgtgcgcct gccgctgatg gagtgcgtgc 120
 agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180
 tccgagggag gagctttgcg ggcaacctga acacctaca gcgacttgcc atcaagctgc 240
 cggatgatca gatcccaaag accaattgca acgtagctgt catcaacgtg ggggcacccg 300
 cggctgggat gaacgcggcc gtacgctcag 330

<210> 425
 <211> 333
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 124, 133, 145, 152, 244, 249, 254, 263, 307
 <223> n = A,T,C or G

<400> 425
 ctgctccatg gnctcaaagt cagcaccacc cacaccaca atgatcactg acatgggcag 60
 gttcgaggca cgcaccacag cctcacgtgt ggcttccaca tccgtcacag caccatcagt 120
 cagnagaaac agnatgaagt attgngaggc antcccctga tgtgcagcct gggctgcaaa 180
 cctggacctg cccgggcggc cgctcgaaag ggcgaattcc agcacactgg cggccgttac 240
 tagnggatnc agancctcgt acnaagcttg gcagtaatca tggatcatagc tgtttcctgt 300
 gagcggntgg gatgaacgcg gccgtacgct cat 333

<210> 426
 <211> 411
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 346
 <223> n = A,T,C or G

<400> 426

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gggtgttcat catgaggatt gcttctgcca tggagctgat ggacgtgggc aggttgctga 60
gaaggtgggg tggaaagtgag tgccgggggt gggtgagtgc cctggctcttg ttcataagggg 120
agcctttccc tagcagtgga acgctgtggt ctttttctct agcatattcc cttgggaagt 180
ctagatttgc tattaatctg gctgagaatc taagttctgt gccttagaga cagtttgcac 240
tttcccataat tgtgcctggg acagccatat gatttttttt cccaccaaac aagtatgcaa 300
acagaaacca gttcaaaggg ggatgggtgta aaagatgagg cagtanaaat gcctttgaat 360
ggttttctgt agctaattct ctttaaattt tgtcctgctt tttttcttta t 411

```

```

<210> 427
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 136
<223> n = A,T,C or G

```

```

<400> 427
acgtgtacaa gtttgaactg gatacctctg aaagaaagat tgaatttgac tctgcctctg 60
gcacctacac tctctactta atcattggag atgccacttt gaagaacca atcctctgga 120
atgtggctga tgtggncatc aagttccctg aggaagaagc tccctcgact gtcttgtccc 180
agaacctttt cactccaaaa caggaaattc agcacctgtt ccgcgagcct gagaagaggc 240
ccccaccgt ggtgtccaat acattcactg ccttgatcct ctgcgcgttg cttctgctct 300
tcgctctgtg gatccggatt ggtgccaatg tctccaactt cacttttgct cctagcacga 360
ttatatattca cctgggacat gctgctatgc tgggactcat gtatgtctac tggactcagc 420
tcaacatggt ccagaccttg aagtacctgg 450

```

```

<210> 428
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 133, 181, 246, 264, 280, 290, 300, 325, 360, 362, 374
<223> n = A,T,C or G

```

```

<400> 428
cagggtata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatgggtg 60
acttcttggg agtggggggac caccagggtg cctaaggagg ggtgaacctg cctacgttgg 120
aaatagagct ggncaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180
nccgccctcc agcatgggca acataacaag accctgcctc ttaaagataa aaattggaaa 240
acactngtag gaaaaaaagg gtgnttggtc taaataaatn tggattgggn ataatgacn 300
caaaactatc atgaatttga aagcntttct aatttcttga aagtctgaaa aaagttaaan 360
cncaatttta tctnaaa 377

```

```

<210> 429
<211> 206
<212> DNA
<213> Homo sapiens

```

```

<400> 429
gttgctcctc caaagaaggt tggcttcaag gccgtgtcca gggacccacg agcagaggca 60

```



```

ctgggggggca agggatctcc aaggggggcaa gggatcccta aagggggtag ctcacaggtg 120
aggggggttta gggccctct agggagcgcc tgaggccata cattcaagag tgtccctggt 180
gaggcccagg gaagagccag gactgg                                     206

```

```

<210> 430
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 329, 335, 363, 365, 448
<223> n = A,T,C or G

```

```

<400> 430
ccttatttnt cttgtccttt cgtacagggg ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttggtc cgttgggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgagggtcnc cccanccgaa atttttaatg caggtttggt 360
agntnaggac ctgtggggtt gttagggtact ggggtgcatta ataaattaaa gctccatagg 420
gtcttctcgt cttgctgtgt tatgcccncc tcttcacggg cagggtcaatt tca         473

```

```

<210> 431
<211> 215
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 15
<223> n = A,T,C or G

```

```

<400> 431
cctgtatnaa gctanaaaaa gactaccagc ccgggatcac cttcatcgtg gtgcagaaga 60
ggcaccacac ccggctcttc tgcactgaca agaacgagcg gggtgggaaa agtggaaaca 120
ttccagcagg cagcactgtg gacacgaaaa tcacccaccc caccgagttc gacttctacc 180
tgtgtagtca cgctgggcatc caggggacaa gcagg                                     215

```

```

<210> 432
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 377
<223> n = A,T,C or G

```

```

<400> 432
ccagcactgc cacaaacttt ttcagggcca ccaggcgctg cccttccagg accgggaacc 60
tgcccacttc tatccgcagg atgtagtcca gtgcagattc caggtcagcc atgtagatcc 120
tggagcgatc tgccaatttc caaacagtgg gagctatctt gttagcagtg gttgggtgcaa 180

```

```

ctgtggtctg ggcagcctcc ctggtgagcc cagagagtct ctgcaggtaa gcggtataga 240
aggacctgga ttccatgagc acgggggactc gggagacgga gccattccgg aacagcaggt 300
agcaagaggg gaagtcggtg acaccaaact ttctcaccac attggcctct gtgttcagca 360
ccctgcgcac cgccacncct ttgtgctggg a 391

```

```

<210> 433
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 275, 295, 328, 374, 399, 413, 420
<223> n = A,T,C or G

```

```

<400> 433
ctgtagcttc tgtgggactt ccactgctca ggcgtcaggc tcagatagct gctggctgcg 60
tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctcccgctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tggtggcttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacgtag gacggttagt ttggnccctc cgccgaatgc cgcanttcta 300
ctgtcccaca cctgacagta atagtcancc tcattcttcgg cttgggctct gctgatggtc 360
agggtggccc gtgntccccg agttggagcc aggggaatnc tcagggatcc canagggccn 420

```

```

<210> 434
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 8, 199, 236
<223> n = A,T,C or G

```

```

<400> 434
ccaaccanga gagaagggat cgcctggtgc ccagggccca ccaggagctc caggcccact 60
tgggattgct gggatcactg gagcacgggg tcttgcagga ccaccaggca tgccagggtc 120
taggggaagc cctggccctc aggggtgtcaa gggtgaaagt gggaaaccag gagctaacgg 180
tctcagtgga gaacgtggnc ccctggacc ccagggtctt cctgggtctgg ctggtncag 239

```

```

<210> 435
<211> 415
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 225, 228, 276, 328, 330, 339, 352, 378, 387, 405, 415
<223> n = A,T,C or G

```

```

<400> 435
ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccanaa ctcagtgagt gcaaaccgca gtgacccagt caccctggat 120

```

```

gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cttttcggga 180
gcaaacctca acctctcctg ccaactcggcc tctaaccat cccncanta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gttctnttta tcgccaaaat cagccaaat 300
aataacggga cctatgcctg tttagggntn taacttggnt actggcgcga anaattccat 360
agtcaagagc atcacagnct ctgcatntgg aacttctcct ggctntcaga cctgn 415

```

```

<210> 436
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 436
ccaggattga caggccatcc attcacagcc aggagatgct gggccagtcc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctccaggtgac 120
tggagcccga gggcctgaca ggttcccagc ag 152

```

```

<210> 437
<211> 174
<212> DNA
<213> Homo sapiens

```

```

<400> 437
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgg gtcctgtaag cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagct gtggcctcgt tcgccaccgt atagttgatc 120
ttgaacttct ttggattctc agtcttctct ccaaggacct tcttctcaac acag 174

```

```

<210> 438
<211> 485
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 371, 393, 412, 419
<223> n = A,T,C or G

```

```

<400> 438
ccacggccct ctcggccctc tcgctgggag cggagcagcg aacagaatcc atcattcacc 60
gggctctcta ctatgacttg atcagcagcc cagacatcca tgggtacctat aaggagctcc 120
ttgacacggg caccgcccc cagaagaacc tcaagagtgc ctcccggatc gtctttgaga 180
agaagctgcg cataaaatcc agctttgtgg cacctctgga aaagtcatat gggaccaggc 240
ccagagtcct gacgggcaac cctcgtttgg acctgcaaga gatcaacaac tgggtgcagg 300
cgcagatgaa aggggaagctc gccnggtcca caaaggaaat tcccgatgag atcagcattc 360
tccttctcgg ngtggcgcac ttcaaggggc agngggtaac aaagtttgac tncagaaang 420
acttccctcg aggatttcta cttggatgaa gagaggaccg tgagggtccc catgatgtcg 480
gaccc 485

```

```

<210> 439
<211> 317
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 146, 268
 <223> n = A,T,C or G

<400> 439
 gggccgtctt cccctccatc gtggggcgcc ccaggcacca gggcagtgat ggtgggcatg 60
 ggtcagaagg attcctatgt gggcgacgag gccagagca agagaggcat cctcaccctg 120
 aagtaccca tcgagcacgg catcgnccacc aactgggacg acatggagaa aatctggcac 180
 cacaccttct acaatgagct gcgtgtggct cccgaggagc acccgtgct gctgaccgag 240
 gccccctga accccaaggc caaccgcnag aagatgacct agatcatgtt tgagaccttc 300
 agcaccaccag ccatgta 317

<210> 440
 <211> 338
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

<400> 440
 ccanaaagac ttcccaggga agatgcttgg ctctctgctc caaggtgggc catggtatag 60
 ggcctcgaa gggcttgtgg ctgggggtgat cccagggggc attgctcaaa gtgcacagga 120
 ggtggcagca gggtcaggcg agttcctgtt ccagggacat caggagggag ggtagaagcc 180
 tagggagtgt gcgaggctgc tgggatgagg gagctcaggg gctaccagct aaccagcctc 240
 agctcaatgg tttctccatc cttgggtctg tagtcagcaa taccttgcaa cagtggggtg 300
 ttgggggtctc ggagaagctg ccagaactcc ctttctcc 338

<210> 441
 <211> 505
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 186, 246, 321, 330, 403, 404, 406, 416, 445, 459, 481,
 484
 <223> n = A,T,C or G

<400> 441
 ccacacagan tcaccaagcc acagacttgt cttccacaag cacgttctta tottagccac 60
 gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120
 aaataccaag gggaacagtt aacttcaata caaggtcgaa atcagcaaca agttctacaa 180
 tccagngctg atatcagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240
 tttcngagg ctagcatgag gtgtgtgcat ttgccagggg caaatttcta ttctcaatta 300
 acccatgcag caaatgctac ncatggtgcn gagtccgttt agaagcattt gcggtggacg 360
 atggaggggc ccgactcgtc ttactcctgc ttgctaatac acnngngctg gaaggnggac 420
 agtgaggcca cggatggagc caccnatcca caccgagtnc ttgcgctctg ggggtgcat 480
 natnttgatc ttcatgggtg tgggc 505

<210> 442
 <211> 386
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 331, 369

<223> n = A,T,C or G

<400> 442

```
cgccaggtga tacctccgcc ggtgacccag gggctctgcg acacaaggag tctgcatgtc 60
taagtgctag acatgctcag ctttgtggat acgcggactt tggtgctgct tgcagtaacc 120
ttatgcctag caacatgcc aatctttacaa gaggaaccg taagaaaggg cccagccgga 180
gatagaggac cacgtggaga aaggggtcca ccaggccccc caggcagaga tggatgaagat 240
ggtcccacag gccctcctgg tccacctggg cctcctggcc cccctgggtc cgatgggaac 300
tttgctgctc agtatgatgg aaaaggagg nggacttggc cctggaccaa tgggcttaat 360
gggacctana ggccacactg gtgcag 386
```

<210> 443

<211> 404

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 241, 306, 311, 328, 339, 362, 372, 385

<223> n = A,T,C or G

<400> 443

```
cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac 60
caaggccaag ctttcctggg gctcaggga aatcacactt tgctaccga agctgtatcc 120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tcctgagaca cattctctcc 180
ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240
ngatgcagcc tctgtgaaca ggtgcctgga ggctgggaaa tgaccctgag agggcaggac 300
acagcnaccg ngggcttaag gtgagggngg agagcaagnt tggcccaact tacaattcta 360
gntcagagcc ancccctaac atggnnggca tttattcatt tcgg 404
```

<210> 444

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 58, 69, 87, 195, 250, 275, 286, 302, 305, 317

<223> n = A,T,C or G

<400> 444

```
catgggctat agtgcgctat gttgatctgg tgttcatgct aagttccgca tcaatatngc 60
gacttcttng gagtggggga ccaccangtt gcctaaggag gggatgaacct gcctacgttg 120
gaaatagagc tggatcaaac tcctgtgctc atcagtagta gaattgcacc tgtgaatagc 180
caccgccctc cagcntgggc aacatagcaa gaccctgcct cttaagataa aaattggaaa 240
aactggttan gaaaaaaagg ctgttttggtc taaanaagtc tggatngggg ataatgaca 300
cnaancatc atgactnt 318
```

<210> 445

<211> 418
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 288, 354, 375, 387, 389, 400
 <223> n = A,T,C or G

<400> 445
 ccagtcacaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
 cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
 aggtgccaaa tcccaggaca ggcattgaagt gaccatcatt cagcttcaca cactgatatt 180
 tcgaatccat ttctgtcact agcctggctg gcaaagtgtt ctttcttcct ccctcacagg 240
 ctataagagc aatgagctgg caacgccccct gagcacactg tctgctgntt aaccaatggc 300
 atgtgagagg agggacagag gcagtcttac acaagctgtg ataaaaattg catncagttc 360
 aaccagtttc ttacnttatt ctaatgngna ggaagtgtgn gaagagcaca aagtcaga 418

<210> 446
 <211> 361
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 78, 89, 148, 193, 201, 253, 259, 265, 288, 290, 292,
 298, 318, 342, 343, 346, 354
 <223> n = A,T,C or G

<400> 446
 ctgtccaatn acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60
 tatgagtgtg gaatccanaa cgaattaant gttgaccaca gcgacctagt catcctgaat 120
 gtcctctatg gccagagcga cccacacntt tccccctcat acacctatta ccgtccaggg 180
 gtgaacctca gcntctctctg ncatgcagcc tctaaccacac ctgcacagta tccttggtctg 240
 attgatggga acntccagna acacnacaca agagctcttt atctccannc tnactganaa 300
 gaacagcgcg actctatncc ttccaggggg ggggggtggg gnntgnggac cttncggggc 360
 c 361

<210> 447
 <211> 321
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 9, 105, 121, 192, 202, 213, 299, 301, 305
 <223> n = A,T,C or G

<400> 447
 ccagganant ggttccccaag aggggacctc acccgccccg agctctggag ccgctgacgc 60
 tcgcatccag gacatttgag atgggaatcc aaataggcta cttgnaaaag acgtgctgca 120
 ngcagccctg gagagactca tggagtctcat tgtacattac tccatctacc gaggcagcgc 180
 atggcatgac tnaacggctt gnaacaaaca canaaattac caccacaaac attcaggaac 240
 caaatataat ctgctatggt cacaccacag acaatgcagg aagaggcttt ttattgctng 300

ngtgngtttt caaatcatgt t

321

<210> 448

<211> 325

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 107, 222, 251, 296, 301, 325

<223> n = A,T,C or G

<400> 448

```
ccagcttcaa ctttttagta tagaagatac aggatcacia aaaggagact acgctttgca 60
aacatagcat caaaattcaa cttttctctt tgcagtttat ccatggngtc agcatacctt 120
gcaagggaag ctacttacat caaataactt ttctatatatac atttcctcat tgaccttttc 180
tcaaagaata tcttggtttt gccgaacaaa cataatatag gngtctgcca gatccattcc 240
tggtttctgt ngtgaaggaa aagcaggggg aacaaaataa tatcaggggc tcaatngtga 300
nattattatt taatcatacc ctgan 325
```

<210> 449

<211> 123

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 69, 70

<223> n = A,T,C or G

<400> 449

```
cattaatntt ggaagcgatg gtgtggatta catcagtgtt agggcatggt gtggatatta 60
ttacattann attggaagcg atggtgtgga ttacatcagt gatagggcac ggtgtggata 120
tta 123
```

<210> 450

<211> 328

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 241, 257, 323, 325, 328

<223> n = A,T,C or G

<400> 450

```
ctggcaattt tgagctgccg gttatacacc aaaatgttct gttcagtacc tagctctgct 60
cttttatatt gctttaaatt tttaaagaaa ttatattgca tggatgtggt tatttgtgca 120
tattttttta caatgcccaa tctgtatgaa taatgtaaac ttcgattttt ttttaaaaaa 180
attagatttt agctggagct tttgactaat gttaaagtaaa tgccaaacta ccgacttgat 240
ngggatgttt ttgtaangtt aatttttctaa gactttttca catccaaagt gatgctttgc 300
tttgggtttt aactgtttca acntnggn 328
```

<210> 451

<211> 209
 <212> DNA
 <213> Homo sapiens

<400> 451
 ctgccttggt tcaacagaca tgcaaagatc ctaggagaca gtcccatag accttcagac 60
 attaaaaagg gagccgtaca gtttggttga agcacttcgt cttacccatt tatgcagggg 120
 ccccaggaaa cttacacaca gccagaatga ggttcccaaa ggacttacat taattatggc 180
 tcttgcttcc tttcacaaat gagctgagg 209

<210> 452
 <211> 457
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8, 290, 392, 416
 <223> n = A,T,C or G

<400> 452
 ctgtctantc ccttcaagag ctgtttatag aagcttgaga atggggtaaa aatttctgct 60
 agcaaaatca agttcttttt gaaattttat cagtaatcca gaatttagta gtccatgcct 120
 tctcactcag catttagaaa taaaaatgtg gtttcttaaa cgtatatacct ttcattgtata 180
 tttccacatt tttgtgcttg gatataagat gtatttcttg tagtgaagtt gttttgtaat 240
 ctactttgta tacattctaa ttatatattt tttctatgta ttttaaattgn atatggctgt 300
 ttaatctttg aagcattttg ggcttaagat tgccagcacc acacatcaga tgcagtcatt 360
 gttgctatca gtgtggaatc tgatagagtc tngactccgg ccacttggag ttgtgnactc 420
 caaagctaag gacagtgatg aggaagatgg catgtgg 457

<210> 453
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 453
 ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactacga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgta 277

<210> 454
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 454
 gttaaaagat agtaggggga tgatgctaata aatcaggctg tgggtgggttg tgttgattca 60
 aattatgtgt tttttggaga gtcattgtcag tggtagtaata ataattgttg ggacgattag 120
 ttttagcatt ggagtagggt taggttatgt acgtagtcta ggccatatgt gttggagatt 180
 gagactagta gggctagg 198

<210> 455

<211> 608
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 43, 225, 502, 508, 569
 <223> n = A,T,C or G

<400> 455
 ctgagcaagc taaggaccag gggcaactag accctaataa tgngtacttt tgaaaatgat 60
 acaaactacc ttggttgtaa gaagtgcagg ttgaacactt taggagaaca gtcttcaaac 120
 tggcaattca aaatttccca ttatatgtga ataaaattgg aaggatgtta aatgtccatg 180
 gaaagttact cttgtaagtt aggatgcctt atactgaggc tttanaatga aagtacactt 240
 cacaaatgga atagtgaaca taaattacca gaagtcaaga taatagtcac actagtaagg 300
 taagcaaggt aaattccctt atacacaaaa attattttga tgaccttttt caataatgaa 360
 tctgaaatga agtggttttaa aaagctccct aaacacaaaa cgaacataaa actgcttaat 420
 aacttttagag ctcatgtaat attcttgctg aaaacagtta ctgaaattac cagcgaaatg 480
 atggaatata tttaaagcag gncactcngt ataactctga ataatttcac ttgctaactt 540
 ttaagaagta ttctctggac tataaatcnt gggcaaatac acttccactt tattattacc 600
 ccaaatta 608

<210> 456
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 358
 <223> n = A,T,C or G

<400> 456
 cctggacctg tgtaaacctt caaacactct tttttacatt aggtcgtgaa gttaaattttt 60
 ttactgtttc tgtgctacag actcttcaaa gggaaatagt taagtcaatt tcaaagaaaa 120
 tgaccagcac atttttaaaa cattagaaat gatttgactt tgactatcta ctgccaaaaa 180
 aagggttaagg aatttgtaat gagaagctaa aaactttaag gaattttaag gaactcaaaa 240
 caaaaactca ttaaatgtaa ttaaagtga ttctacaaat aaagcctctt aatacatttc 300
 tataatagtc acttaagact taaattcaaa cactagcaaa ccacaaaatc agactgtntg 360
 actgacatcc aaaagataaa tataaatcaa aatccgaccc cagcattagc caaggggtag 420
 gtgttcctct tgaggaaggc aggaattcct cttctgccac ctggttgg 467

<210> 457
 <211> 183
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10
 <223> n = A,T,C or G

<400> 457
 ccaaattttt tacttttaaact actgaaaaca gaggaagtta ataaaaattt taacctataa 60

```

agtcacctgg ttgttagtca ttaacagcag attgtcagat aagactggta aaatgatggc 120
tgctaagcat ttgatgatcc aggcgcagga tgatcaaact gcagcagatc atgcacgtga 180
cag                                                                 183

```

```

<210> 458
<211> 445
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 324, 372, 388, 396, 431
<223> n = A,T,C or G

```

```

<400> 458
gaaaaatata aagccaaaaa ttggataaaa tagcactgaa aaaatgagga aattattggt 60
aaccaattta ttttaaaagc ccatcaattt aatttctggt ggtgcagaag ttagaaggta 120
aagcttgaga agatgagggt gtttacgtag accagaacca atttagaaga atacttgaag 180
ctagaagggg aagttgggta aaaatcacat caaaaagcta ctaaaaggac tgggtgtaatt 240
taaaaaaaac taaggcagaa ggtttttgga agagttagaa gaatttggaa ggccttaaatt 300
atagtagctt agtttgaaaa atgngaagga ctttcgtaac ggaagtaatt caagatcaag 360
agtaattacc ancttaatgt ttttggcgtt ggactntgag ttaagattat tttttaaatc 420
ctgaggacta ncattaatgg gacag                                                                 445

```

```

<210> 459
<211> 426
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10, 345, 363, 400, 401
<223> n = A,T,C or G

```

```

<400> 459
cctatgatan cttctctagc tatcatactc caatcagcaa aaaatgagaa aatggttgaga 60
aatagaagat aattcctcat ttaaggccac cttctagaat ttgtgcttaa gattctgctt 120
tcttctcatg ggccagcact tcggcaactg gcaaaaatta ggtgtacagg gatctaggta 180
atactgttta tttagagcaat aatatattgt gctaacgttc aggcataccta ttactgagaa 240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg cgacagggaa aaataccatc 300
agttaaatat ccatagtcct agagcattta tgtaaaactg caatntgaat cctgcaatac 360
atnttggtct tttccctcag tgataccatg tgagggaagn ngctctgtca aggcggggccg 420
gataga                                                                 426

```

```

<210> 460
<211> 348
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 147, 184, 203, 288, 294, 308, 312, 313, 316, 333, 345, 347
<223> n = A,T,C or G

```

<400> 460

```
ccaaattttta aaatggttatt ttccatatca ttataaacct tgcacaaatc cacttaaaga 60
agtttggtta tatttcactg aaaattttct tccagagtag gttttttttc gtggggttggg 120
gggtaacttt actacaatta gtaagtntgg tgcagaattt catgcaaagc aggagtgcag 180
cagngtgata atttaaaca atntaaacaa aaacaaaaaa aatgaatgca caaacttgct 240
gctgcttaga tcaactgcagc ttctaggacc cggttttcttt tactgatnta aaancaaaac 300
aaaaaaanta annacnttgt gcctgaaatg aancttggtt ttttntna 348
```

<210> 461

<211> 378

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 370

<223> n = A,T,C or G

<400> 461

```
ccactaagac agaacggaat ctagtagaag tgcaccaatg cttcagtcct tectactcag 60
catggtgagc agtgggtcaat ctgtgccctg tggaatgatg ggcagataat tctggcatgt 120
gtaaataata ataaataatt cacttggtgc aggagtagt tctatgaatt aaaacctagt 180
gtgtacacag tgcctacatg tggtacagcc ccacagtagg aatctacacc aaaatattta 240
ttagaaggaa tttgggtccg actacatcac gctttccgga gggtaaaaaa taaagtccat 300
ctatagacat ttcaccacag acccagagac tgagtctggc taaaacctgc aaaatgtcta 360
taacaaaagn ggatggct 378
```

<210> 462

<211> 197

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 59, 72, 81, 99, 105, 112, 120, 137, 140, 155, 158, 163, 182, 190

<223> n = A,T,C or G

<400> 462

```
gcgaggtcca cactattaaa agctgttggg taattgaagg tgatataaaa tgactgtcnt 60
catttgaggt gngcagcaca nttacttcat gttgctcang ttanaacaa tntcccctgn 120
aagttctcac acagatnggn agaaatcata cctantnttg gtnaatcact atggcagccg 180
tngaagaatn taagaga 197
```

<210> 463

<211> 279

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 18, 26, 28, 43, 164, 175, 200, 201, 203, 219, 222, 230, 246, 262, 263, 267

<223> n = A,T,C or G

```

<400> 463
cataagtgat gangaggnaa aatcantnaa taagcctaca acntagaata cattaaaact 60
tgcacatata catgttcaca gcatgtatac aatgataatc cctacgggtt aaccaagtta 120
tggttccctt ctacagcaga cacaaaacca aggtgaacta ggtnggcaga tgtanaggga 180
ataccaaaaa aagggtaatn ngntcactga ttctgaagna tntgactgan catactgagc 240
ttctgnactt tgggaatgca tnnaggnaac aatatcttg 279

```

```

<210> 464
<211> 552
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 266, 287, 395, 444, 460, 481, 487, 493, 512, 520, 532, 549
<223> n = A,T,C or G

```

```

<400> 464
gatgggttga taggtgcagc aaaccaccct ggcgcatgtt taccaatgta acaaacctgc 60
acatcctgca caggtactcc aaaactaaaa gtaaaaaaat ctaaaagaaa aaagaaaaag 120
aattaaaccc aaaatcactt ccccatctgg acttgattta gatgaaaagc ttctggactt 180
tgagctgatg ctatagtggg ttgaaaattt tggggtcctc agaaggggat gaggatatat 240
tgcattgagag agcaacatga atcatngaga gccagagtat agagagnggt gggtagactg 300
taggagagcc ctcaatgatc ccggctgtct tgtattcgcg ttgcacttac ttgtataata 360
tggcagatgg gatgtgatgt cactttcaag attangttat aaatagacta tggcttcaat 420
cagaggggtt tcttctctgt ctanctctct tttgggtagn ttcattctga gagaaagcca 480
nacctcngcc gcnacccacg ctaagggggc anttccagcn cactggcggc cngttactag 540
tggatccgng ct 552

```

```

<210> 465
<211> 444
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 124, 326, 360, 369, 388, 394, 399, 413, 415, 438, 443
<223> n = A,T,C or G

```

```

<400> 465
ccactcttgg tagaaacctt gaaactttca ccttgctggg ctttagcaaa gtttcctttt 60
acagttctgt ttatgagctt cagctactga taaagcactt cctgaacttc tctattatca 120
tagngaccct ctgaataacc tgagtgactg gctcggcaat tcgctttata accattctta 180
ttcccaaagt tggagcacat aaacatttag atgtcttttc ctgtaaaata ttctagacat 240
ttacccaaac tctagttcaa catatactca acttgcactg tatactctcc tgcttttttg 300
agacagagaa gaaattcagg aggtgnccca tctccagagt ttctctgttg gaaagcagcn 360
atcaagaanc ctttaaaaaa ttggtgtnaa gctntgcnc ctgcagaaat gcntngcccc 420
acattattct tctggggnaa agna 444

```

```

<210> 466
<211> 381
<212> DNA
<213> Homo sapiens

```

<220>
 <221> misc_feature
 <222> 265, 325, 326, 338
 <223> n = A,T,C or G

<400> 466
 cctactatgg gtgttaattt tttactctct ctacaagggt ttttcctagt gtccaaagag 60
 ctgttcctct ttggactaac agttaaattt acaaggggat ttagagggtt ctgtgggcaa 120
 atttaaagtt gaactaagat tctatcttgg acaaccagct atcaccaggc tcggtagggt 180
 tgtcgctct acctataaat cttcccacta ttttgctaca tagacgggtg tgctctttta 240
 gctgttctta ggtagctcgt ctggnttcgg gggctcttagc tttggctctc cttgcaaagt 300
 tatttctagt taattcatta tgcannaggt ataggggnta gtccttgcta tattatgctt 360
 gggtataatt tttcatcttt c 381

<210> 467
 <211> 95
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 11, 15, 46, 69, 74, 77
 <223> n = A,T,C or G

<400> 467
 cctatanatt ntggnttgta tactgggtcc tgaaaaccct cttggngctc tgtttttaag 60
 gagctgaanc caanganccg caataataat acttt 95

<210> 468
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 468
 cagtgggtct ctgatgcctt gcctgcagca gaaggaggga gcagagatca agaggaagga 60
 aaaaatcata tgtacttatt tgaaggtaaa gattattcta aagagcccag taaggaagac 120
 agaaaatcat ttgaacaact ggtaaaccct cagaaaaccc ttttgagaaa agctagtcaa 180
 gagggccgat cactccgaaa taaaggcagt gttctcatcc cagg 224

<210> 469
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 469
 ctgagttcta gttcaaaagc tttatcctta acttcgtcat gtactatgta aattctagaa 60
 tagaaaaggg aaaggtaaga ttttggtaac ctccaaacat tgaagtagtt cacagacca 120
 aagtcagtac aaattagaat gtccatccat aataaaagta tctataaaat tacacagaca 180
 cattctacat agtatttaac attagagaag acaaattaca cagggactga aataaaatga 240
 aacatctact ctcccagaaa atgttgaata tacctaatac acccaagttc agtttatttt 300
 tgcacattgc tttagagata taacttggct gggcacagt gctcacacct gtaatccaa 360
 cactttggga gaccaaggcg gatggatcac ttgaggtcag ttcgagacta gcctgg 416

<210> 470
 <211> 376
 <212> DNA
 <213> Homo sapiens

<400> 470
 caccttttta ctgtatcaca aagtctgttg ctgtggttac agccttttgtt tccagtgatg 60
 ttttgtccat gctttccccc aacccttaac aatgggttact caaaagaatg aaataatgag 120
 tcattcattc gggaatatgt taaaatatcc ctcttttatca ttacatttca ctgcttagaa 180
 actaggctgt aattcaaggc aacagttaag tctgagaact gttaaaaaaa tctttgattt 240
 tttttcattt ttaagaaaaa cctgcctatt taattgttca gacttgtaag aggttcttca 300
 attacatcct ttttggttaa tgtattattt ctggaacaag tagataaaat tctacgcagt 360
 aagcataata aaaatc 376

<210> 471
 <211> 357
 <212> DNA
 <213> Homo sapiens

<400> 471
 ggcttcgtat aatgggttctt ttgtcacccc tgatcgacga ttctgctacc cgtacaactc 60
 tgacaaggga acgaaatgct tctgtgtatt cacctagtgg tcctgtgaac agaagaacaa 120
 caactccacc ggatagtgga gtactgtttg aagggttagg catttcaaca agacctagag 180
 atgttgaaat tcctcagttt atgagacaga ttgcagtaag gaggccaact acggcagatg 240
 aaagatcttt gcggaaaatt caagaacaag atattattaa ttttagacga actctttacc 300
 gtgctggtgc tcgagttaga aatattgaag atggtggccg ctacagggat atttcag 357

<210> 472
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 29, 213, 428, 515
 <223> n = A,T,C or G

<400> 472
 cngagatgac atttacaatc tcttgaaaang cagcagatgg cactctggtg cttcctatga 60
 agcaacatgc ttgaaatcaa gggccaacaa ttgttgtagg aaagcaaat atacctctaa 120
 cacctacgtt taccaaaaaa gctgacatct caaactctga gttgttgaga ctcaaatttc 180
 tcatccccaa agaagcctat tacggtagtg tgntggatgc tttttgtatc tctgataggc 240
 aggcactata atgggggggaa atacttctga ataaaaacat tggctgtctt gcaactgtgc 300
 atataatgtc tattcaaggg ggcagtgtgc ctagcatgat cctgaaatgt tgagataaaa 360
 ggaagtgtgc attaaagcac tatttgtctt atatgaaaag agtgactcta tcttccagta 420
 aacaagantt cctgcaatga aaaagaaatt ttttccttca ttatctataa actatacaaa 480
 ataaccttcc tttttaacct aagactcaaa cattnatatt tgattttatt ctatttgata 540
 ccaattggta tgtccag 557

<210> 473
 <211> 264
 <212> DNA
 <213> Homo sapiens

<400> 473

```
cctccatcaa cagaaaggat aaagacccct tcgggtctcc tcattaattc tgaactggaa 60
aagccccaga aagtccggaa agacaaggaa ggaacacctc cacttacaaa agaagataag 120
acagttgtca gacaaagccc tcgaaggatt aagccagtta ggattattcc ttcttcaaaa 180
aggacagatg caaccattgc taagcaactc ttacagaggg caaaaaaggg ggctcaaaag 240
aaaattgaaa aagaagcagc tcag                                     264
```

<210> 474

<211> 165

<212> DNA

<213> Homo sapiens

<400> 474

```
aattcagctt ccagaggccc ttattagtc tttgttgacag aaacatagat ttggcaactc 60
ctttacatca tacttggaca tatcaagcat tgggtgcacga tgtactggat ttccatttaa 120
acagggttaa tttggaagaa tcttcaggag tggaaaactc tccag                                     165
```

<210> 475

<211> 417

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 370, 372

<223> n = A,T,C or G

<400> 475

```
aagttctctt cttgttttaa acacattcct gataacttct aaagatgacc aaaataaaaac 60
agaatatcta cagagatcat tttctgaatt ttttgtacat ccaaggataa caacataaaa 120
aaaataaaaac tggacagcat tccacatcca agtgcacaga accatttttg caagattaaa 180
taatgtaaac attgggaaca gccaaatcag cgaagaatgc caacacctca aaacacctgg 240
tggtgccgct tcattaagtg gttcaaaatc cagatctata attgcgcaat attcaccgta 300
tataaaaaga aatggatatt aatttttgaca aatagctgca actgagactt ctttttattt 360
ctttatatgn gnatatagtg aatttttatt attttttaaa ttttatttat tttttta 417
```

<210> 476

<211> 321

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 36, 87, 102, 158, 170, 193, 196, 263, 291

<223> n = A,T,C or G

<400> 476

```
catttaataa caaaaacaac ctgtacggaa aaccnaagg caaccacata gcatatgtaa 60
aatgtgcaaa tacactttta aatgcangtt attctatagc anttgcaaga tagaatttca 120
ctgtaattag ggaatctagc tcatacctaac ttaatagnct tttgcatgtn tagacaatgc 180
aattctacaa ggnacnactc agcgttgatg cttaaagtatg aaacacatcc tcagattatt 240
catccgaaaa tattaaaata gntcatggtt ttattattct ttaatgagtc ntgagctcat 300
ttctaaagct tcataaagca t                                     321
```

<210> 477
 <211> 546
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 546
 <223> n = A,T,C or G

<400> 477
 gctgtggtta tattgtaaat gaagcatcta acatgtgcac aacttgcaac aaaaactcct 60
 tggacttttaa atctgtcttt ctcagtttcc atgtgctgat tgatctgact gatcacacag 120
 gcacccttca ttctgttagt ctcacaggaa gtgttgctga ggagactttg ggctgcacgg 180
 tacatgagtt tcttgcaatg acaaatgaac agaaaacagc attaaagtgg caattcctct 240
 tggaaagaag caaaatttat ttaaaattcg ttctatcaca cagagcaagg agtggattga 300
 aaattagtgt actctcgtgc aagcttgacg atcctactga ggcaagcaga aacttgtctg 360
 gacaaagaca tgttttaaac ggtctatcat tttgaactct ggaaaagtat aagagtttta 420
 actcccttta aaatggaata ttaatttgaa aattatgggg aaaattgcat tttgtttaca 480
 tgtggtgaac atgtttctag aaattggtat ggcgggaagg gggctgggtg agtctgaagg 540
 acctcn 546

<210> 478
 <211> 100
 <212> DNA
 <213> Homo sapiens

<400> 478
 aagaaaagtg gtaaaatcaa gtcttcttac aagagggagt gtataaacct tggttgtgat 60
 gttgactttg attttgctgg acctgcaatc catggttcag 100

<210> 479
 <211> 508
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 3, 423, 505
 <223> n = A,T,C or G

<400> 479
 gnnttccaaa ttcttctaac tcttccaaaa gccttctgcc ttagtttttt ttaaattaca 60
 ccagtccttt tagtagcttt ttgatgtgat ttttaaccaa cttccccttc tagcttcaag 120
 tattcttcta aattggctct ggtctacgta aacaccctca tcttctcaag ctttaccttc 180
 taacttctgc accaccagaa attaaattga tgggctttta aaataaattg gttaccaata 240
 atttcctcat tttttcagtg ctattttatc caatttttgg ctttatattt ttctatcttc 300
 tatacttctc caatacttgt cttagcttgt ttttcatttt ctatctgaaa ctcttgacaa 360
 tatcttctaa ttccctatc ttctctattc ttttcttcgc cttcccgtag ttctgcttcc 420
 agntttccac ttcaaacttc tatcttctcc aaattgttca tcttaccact cccaataatc 480
 tttccatttt cgtgtagcac ctggncag 508

<210> 480
 <211> 81

<212> DNA
<213> Homo sapiens

<400> 480
ggtgcccttt tcctaact cacaacaaaa ctaactaata ctaacatctc agacgctcag 60
gaaatagata aggaaaatga c 81

<210> 481
<211> 306
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 30
<223> n = A,T,C or G

<400> 481
tcgccttcgg ccgccgggca ggtaggggn acaagacgct acttccccta tcatagaaga 60
gcttatcacc ttcatgata acgccctcat agtcattttc cttatctgct tcctagtcct 120
gtatgccctt ttctaacac tcacaacaaa actaactaat actaacatct cagacgctca 180
gggaatagaa accgtctgaa ctatcctgcc cgccatcatc ctagtcctca tcgccctccc 240
atccctacgc atcctttaca taacagacga ggtcaacgat ccctccctta ccatcaaata 300
aattgg 306

<210> 482
<211> 582
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 92, 155, 262, 369, 393, 413, 430, 451, 452, 460, 463, 467,
471, 474, 486, 516, 554, 558, 562, 565, 569
<223> n = A,T,C or G

<400> 482
ggggggaaca gtcattatac attatttaga ctcattectt cttccagtgc ctttatgatt 60
atttcctacc ttaccattg atcttaaact gngcaggcta aaaagaggaa ccagaactcc 120
cttaagcact tttaagacta tttaaaaaat aaagntttgt tggcattgaa gagtaagctg 180
cttaagggac tgaatgaaaa gatagtacc tttgtggctg tatgaagaga gaaactgaat 240
ttctatccaa gagaccttaa tntagcctat tagggaatta tcttcccaa aagtacaagt 300
aattttgcac tgcaggagaa ggataagtag atttgattta catcacattt tatacacacc 360
tttcaagang gagaaatctg cttcataaat agnaggaatc tatgcttaaa ctnaacattt 420
aatggtgaac tcttacaaca gccttgaaaa nnattggaan tcngacntga ngngggaac 480
tggaanaaag aatatctttc tcttctgcat cctttnatcc tcaaacttag catggattca 540
cacgctgagg aaangttnng tnacnaccng aacatttaga ta 582

<210> 483
<211> 275
<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
 <222> 251
 <223> n = A,T,C or G

<400> 483
 gcctcactaa aataacagat ttcagttatag ccaagttcat cagaaagacc caaatggaat 60
 gatttacaaa atagaacact tttaaaccagg tcagtcctat cttttttgtag ctgaaggcta 120
 tcagtcataa cacaatttcg cgtacacctc tgctcattat ggaattacac ttaaaacgaa 180
 tctcaagagg gtgaccattg ttgtttcaga taccatccct aaggagagtg gttaacagga 240
 agattgccag ngttactgat ggaaagaagc gcttg 275

<210> 484
 <211> 434
 <212> DNA
 <213> Homo sapiens

<400> 484
 catattttcca caggccaatt tctttctggt tttctgctaa gctattttcag catttttagct 60
 tttcctcttt gctttgttta ctcatgattg ccagatggct acgttacctc taagcatcag 120
 atcctcaciaa attaatgggt aaatgtaagg gagggatttt actctcttgc attaaaaaaa 180
 agctttattg agatataatt tactgtaaca ttgactcatt taaagtatgc tagtcaatag 240
 accaaatctt gaataaactc ccattcacaa ttgctacaaa gggaataaaa tagctgggaa 300
 tatagctaac aagggaagtg aagggcctct tcaaggagaa ctacaaacca ctgctcaaga 360
 aataagagag gatacaaaaca aatggaaaaa cattccatgc tcatgaatag gaagaatcaa 420
 tatcgtgaaa atgg 434

<210> 485
 <211> 291
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 485
 ncaccactgc agccctacat acagttgaaa aaaaattcca ttctgttaac atttgtttta 60
 taagttttca cgcaatacac aaaaaacccc tctgcacttc ttgtaaagaa caaaaaagat 120
 acacaacagt taagcgtaaa gatcacaggc aatagcattc aaacatggat gtgggtagag 180
 aaaggagtac ctggcatgag tacctgctta gtttgactga atccttgatt tttaatttgg 240
 cttttcatgg gccgctcaca acaccaacgc tgtgtgaggt atggtagtca g 291

<210> 486
 <211> 274
 <212> DNA
 <213> Homo sapiens

<400> 486
 ctgtaaatatt gtagttgctc cagaatgtca agggcagctt acggagatgt cactggagca 60
 gcacgctcag agacagtga ctagcatttg aatacacaag tccaagtcta ctgtgttgct 120
 aggggtgcag aaccggtttc tttgtatgag agaggtcaaa ggggttggtt cctgggagaa 180
 attagttttg cattaaagta ggagtagtgc atgttttctt ctgttatccc cctgattgtt 240
 ctgtaactag ttgctctcat ttttaatttca ctgg 274

<210> 487
 <211> 184
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 86, 132, 137
 <223> n = A,T,C or G

<400> 487
 tggcaccaag attctcagct cacgggtacca gcatctgatt gtcggactac ctgctgcttt 60
 ccctgatatt tatacatgat attcgnaaaa tgtaaagaag ctattattca tacagacatc 120
 tagagaagga gngaagnntt taaaaaata aaaaaatact tatttcaagc tttagctgtg 180
 ttct 184

<210> 488
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 488
 ctgcattttt attgcatct gcagatgaac tggaaaatct cattttacaa cagaactggg 60
 acagacgacc accatattca ctgaggtcta aatttgcagt ttccactaat gacattttga 120
 tttcccaaca gagatacttc tggcttact gcacagtctt ttaagagaaa tacttccatt 180
 atgccacatt gtccttgatc cgtaagtgat gtgttaaggt gcttcaaagg aactctgacc 240
 tctgaagtac ttgagctact ttagtatgtc cagcctattg ctttttgttt tagtgtgtca 300
 ccataaatat caggggcata aaaggctatc tattcttaat tcaaggataa aacagaagaa 360
 gcttgtggta taaaacaata gttcaagatc cag 393

<210> 489
 <211> 607
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 46, 270, 440, 515, 558, 579, 580, 602
 <223> n = A,T,C or G

<400> 489
 gtgcttatgt acttaagggg aactactcta actgggtgaa gagtangatg aagcatccat 60
 gtccctacaa aggatatgaa ctcatccttt tttatggctg catagtattc catggtgtat 120
 atatgccaca ttttcttaat ccagtctatc atcgatggat atttgggttg gttccaagtc 180
 tttgctattg tgaatagtgt cgcaatgaac atacatgtgc atgtgtcttt atagcagcat 240
 gatttataat cctttgggta tatacccagn aatgggatag ctgggtcaaa tggatatttct 300
 agttctagat ccttgtggaa ttgccacact gtcttccaca atggttgaac tagtttacag 360
 tcccaccaac agtgtaaaag tggctctatt tctccacatc atctccagca cctggttggtt 420
 cctgactttt taatgattgn cattccaact ggtgtgagat ggtatatcac cgtgggtttg 480
 atttgcattt ccctgatggc cagtgatgat gaacnttttt tcatgtggtt tttggctgca 540
 taaatggcct gccttttnta cttctataaa atttttcann tcttattatt attcctgggg 600
 gnttaag 607

<210> 490
 <211> 179
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 76, 102, 131, 169
 <223> n = A,T,C or G

<400> 490
 cttctaggaa tactagtata tcgctcacac ctcatatcct ccctactatg cctagaagga 60
 ataatactat cactgntcat tatagctact cccataaccc tnaacaccca ctccctctta 120
 gccaatattg ngcctattgc catactagtc tttgccgcct gcgaagcanc ggtaggacc 179

<210> 491
 <211> 399
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 156, 371
 <223> n = A,T,C or G

<400> 491
 cctctacctg taatcacatt aattttttcta aagacagggg nggtgttttg aagataaatg 60
 tcattagtct atgataatag catcatagga caattagcca ttttagactt gaccatattt 120
 tctcttttta gcatatagcc atcttgatat ttagngggga gactactcca atggagcaac 180
 agtttcattt tacatgattg gatttagaaa tttacaaatt ttaaactcat aagaattcta 240
 aataatttga aaatggaaac atttgaccca cagtctagca gcataaatac atttataaaa 300
 tacttcattg ttgatcttag gtcattgatt taaaacagaa tttggtgact atgggcaggt 360
 ggagggggcc ngtgaggaag gtataaaaga gaaatcttt 399

<210> 492
 <211> 482
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 492
 ctccacctta ctaccagaca gccttagcca aaccatttnc ccaaataaag tataggcgat 60
 agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
 caagcataat atagcaagga ctaaccccta taccttctgc ataataaatt aactagaaat 180
 aactttgcaa ggggagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240
 ctaaaagagc acacccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300
 aaacctaccg agcctggtga tagctggttg tccaagatag aatcttagtt caactttaaa 360
 tttgccaca gaaccctcta aatcccttg taaatttaac tgttagtcca aagaggaaca 420
 gctctttgga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
 gg 482

<210> 493
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 37
 <223> n = A,T,C or G

<400> 493
 cataaatatt atactagcat ttaccatctc acttngngga atgctagtat atcgctcaca 60
 cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 494
 <211> 283
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38
 <223> n = A,T,C or G

<400> 494
 ccaattgatt tgatggtaag ggagggatcg ttgacctngt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac cta 283

<210> 495
 <211> 590
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 584
 <223> n = A,T,C or G

<400> 495
 tatgtatata attttcttag ttactagcat agagaaatta ctgattttaa aaaacatttc 60
 aaattctagc atgttgtagg attctattgc cctttctaaa aagtacatct tgcttatccg 120
 atttctaaca aaactattta atttgaagaa gggagaatga atttggataa aaagcaaaaa 180
 tttaaaggta ctcaaattta ggcaaaccat taaagcaatc ttagtttaca gttaattggg 240
 tagaatggtc aacactttct tcagggttagt tcatggagtg gatatgcatt gatagaacaa 300
 cttagagatg cttttacagt tgagaaagct cattatatatt gttatcttta agaatacagc 360
 tatttatattc atatgtttgt tctttaagaa gaccaaagag ccctgcaaat gaatgttgat 420
 ttgttttttt gtttgtttaa tatttttgta gagataagat ctcactttgt tatgttgccc 480
 aggctggtct caaactctca acttgaagtg atctgcccac ctcagcctcc caaagtgggtg 540

ggattacagg catgagccac cgcacctgga cctgcccggg cggncgctcg 590

<210> 496

<211> 307

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 20, 22, 25, 34, 118, 119, 155, 167, 169, 178, 188, 201, 212, 230, 245, 259, 260, 268, 300, 307

<223> n = A,T,C or G

<400> 496

```

ggagattagt atagagaggn anacnttttt tcgngatatt tggtcacatg gataagtggc 60
gctggcttgc catgattgtg aggggtagga gccaggtagt tagtattagg aggggggng 120
ttaggggggtc tgaggagaag gttggggaac agctnaatag gttgttngnt gatttggnta 180
aaaaacanta gggggatgat nctaataatt antgctgtgg gtggttgtgn tgattcaaata 240
tatngccttt ttcggagann catgtcangt ggtagtaaat ataattgttg ggaccattan 300
ttcttan 307

```

<210> 497

<211> 216

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34, 35, 37, 124, 150, 176, 179, 183, 185, 188, 200, 203, 213

<223> n = A,T,C or G

<400> 497

```

cattttcctc ttggtttcct cagttaagtc aaanngncac gttcctcttt ccccatatat 60
tcatatatat ttgctcgtta gtgtatttct tgagctgttt tcatgttggt tatttcctgt 120
ctngaaatg gtgttttttt ttgttggtgn tgggtttttt tttttttttt aaactnggna 180
ccncnaantt gaaaaaatgn ttntttttcc ctnaca 216

```

<210> 498

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 36, 37, 155, 227, 239, 242, 253, 279, 283, 286, 325, 330, 337, 340, 349, 356

<223> n = A,T,C or G

<400> 498

```

gaatttcctg gcaccttttc tcgctagaga agattnngtg tgactggggt gcctataagc 60
catatagata caaactttta tctctaatac caagtcttag agggatatat taatagatct 120
aataaattta ttcttagact tattgtttca tgggntagtg agtctttgct actggagaca 180
atacagactt gtcagttttt ttaaaaaaaaa aaaatttgcc aagctancac attaaaaana 240
tntcctaagg cntcatcttt atgaggatga ttataaacnt ttntnggata aatatcacca 300

```

taataaaactg ttaagtacaa ctgcnggccn cccttanagn gaattcctnc agttanaaat 360
 ttatTTTTTTT gccaa 375

<210> 499
 <211> 215
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 39, 40
 <223> n = A,T,C or G

<400> 499
 ccacnaaagc agaagcttaa agcatagtag taaagaggnn aaaaagaagg acgaaaataa 60
 atcagatgac aaggatggta aagaagttga cagtagtcat gaaaaggcca gaggtaatag 120
 ttcactcatg gaaaagaaat taagtagaag gttgtgcgaa aatcggagag gaagcttgtc 180
 acaaaaaaaaa aaaaaaaaaa aaaaaaaaaat gtttt 215

<210> 500
 <211> 489
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 38, 239
 <223> n = A,T,C or G

<400> 500
 ccactacgat aagcaggtag ctgggttttg tagtgagntt gctccttaag ttacaggaac 60
 tctccttata atagacactt cattttccta gtccatccct catgaaaaat gactgaccac 120
 tgctgggcag caggagggat gatgaccaac taattcccaa accccagtct cattggtacc 180
 agccttgggg aaccacctac acttgagcca caattggttt tgaagtgcac ttacaaggnt 240
 tgtctacttt cagttcttta ctttttacat gctgacacat acatacactg cctaaataga 300
 tctctttcag aaacaatcct cagataacgc atagcaaaat ggagatggag acatgatttc 360
 tcatgcaaca gcttctctaa ttatacctta gaaatgttct cttttttatc atcaaactctg 420
 ctcaagaagg gctttttata gtagaataat atcagtggat gaaaacagct taacatttta 480
 ccatgctta 489

<210> 501
 <211> 286
 <212> DNA
 <213> Homo sapiens

<400> 501
 aaaaacactc aaacacagcc ttggagggag gagtcagttt taaaagactc ttataaaagt 60
 aatatactgc tagctctgaa gaatcggagg ctaaaatcat ctcttcaagt ccccagggaa 120
 tcccaaagaa ctccagggga aggtgggatg ggccagagag ctctggaage ttccaggtct 180
 gttgcaagcc tcacctggta cacagtaggc tcttccaggt ctgtcaggaa cccaggagcc 240
 tcccctagca cacagtaggc tcacaaaaag ggagcactgc tgctgg 286

<210> 502
 <211> 168

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 38
<223> n = A,T,C or G

<400> 502
cctatgattg tgggggcaat gaatgaagcg aacagagntt cgttcatttt ggttctcaga 60
gtttgttata attttttatt tttatgggct ttgggtgagg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatggggg 168

<210> 503
<211> 173
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 35, 43
<223> n = A,T,C or G

<400> 503
cctttataat aaattaggca aaagggttcag tgcnnngcta tantggacaa catgaaactc 60
cataaaaatg actggatagg gggactgctt gagacttttc ttttgggcat tactaacaga 120
attcaaagaa attccaacca cgcttatatt tccaaattct actgaaatga gag 173

<210> 504
<211> 310
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 127, 259, 273
<223> n = A,T,C or G

<400> 504
tagtattcta tttaaaaatt aagttttggg gtctgtaaaa tatacaggac aatgactttt 60
ttaaaatgta agttaatacc tcctcctcac ttgtcttaat tgaacttagg tgtttattct 120
taaaggngga ccttgatgaa aatggttgaga tgggaagtgt tattaggcaa aacttggtat 180
agattttctc tataactctt aattgaccct tagaatttta acaaccgcgc ctggcccaat 240
agactgtttt ttagagtant tttaggctct cancaaaatt gaggggaaaa tacagggtgt 300
tcccattaaa 310

<210> 505
<211> 530
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 527

<223> n = A,T,C or G

<400> 505

```
cctcagggaa cttacaatta tggcaaaaagg ggaaggggaa gcaagcacct tcttcacaag 60
gcatcaggag agagagagaa agagagtagg ggaaactacc ccttttaaac catcatatcc 120
tgtgagaact ccctcagtat tagaagagca tgaggggaaac cgcctccata atccaatcac 180
ctcccaccag gaccatccct caatacatgg gggttacaat tcaagatgag gttcgggtgg 240
ggatacagat ttaaaccata tcagaatggg taatgatatt gttgtatttt accaactata 300
atcttcttag tgttatagta caataatgta aaaaattgag taaatttggt ttctatatta 360
ttctgttttt ggaaaacatg tatatagtca gggctgtttg tctcaagaaa atatggtaaa 420
ctctgctggt ttggtcactg gtgcctagaa tttggggatg tacattgggt ttgattcaca 480
tgcacatttc cttctagtgc acagtaacta tttctaacta tttcccnata 530
```

<210> 506

<211> 352

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 50, 175, 336, 337

<223> n = A,T,C or G

<400> 506

```
cttgaacgct ttcttaattg gtggctgctt ttaggcggta ctatgggtgn taaatttttt 60
actctctcta caagggtttt tctagtgtc caaagagctg ttcctctttg gactaacagt 120
taaatttaca aggggattta gaggggtctg tgggcaaatt taaagttgaa ctaanattct 180
atcttgga accagctatc accaggctcg gtaggtttgt cgcctctacc tataaatctt 240
cccactat ttgctacatag acgggtgtgc tcttttagct gttcttaggt agctcgtctg 300
gtttcggggg tcttagcttt ggctctcctt gcaaanntat ttctagttaa tt 352
```

<210> 507

<211> 370

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 35, 186

<223> n = A,T,C or G

<400> 507

```
cctaactaga tcttatcaga atagggggga agggngtcgg ttcattcctta ttgagtgtta 60
atgaccctgt aagatgtaat ttcttttatt tcattctggt acctagaaaa tctatcacag 120
ccttgtagta ttgattgtc aatctataaa gagctcaggt tacagcatga ctgttagtaa 180
cagggntatt ttaatgagtg actcttcaac acctcagagt ttcactaaat tccaacccat 240
cagcccagta gtctaacatt aagggtctta ggaaatgaga acttatcacc tttccttatc 300
atgaaaagggt aacctccagg taaccaaaaa tagaacttcc tctgtgttcg ttttttatag 360
aaattactgg 370
```

<210> 508

<211> 129

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 508
 ctgttaaaag aacaaactta gcaatatata acagttnnggt aacaggattt ttgactattc 60
 actttgggag ttatttttta aaatccactt ttttactgag tcttactaca taccaggcac 120
 tgtacttgg 129

<210> 509
 <211> 422
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 52, 105, 107, 166, 176, 197, 232, 239, 241, 252, 255,
 280, 365, 416
 <223> n = A,T,C or G

<400> 509
 ntgggaagtc gtgacatcca tgggaaccca gcgctgtgat gctgggtgttt gngttctccg 60
 cgagaagtga ccattgttgg agcaccatcc agagctagtg accantncag tggacagtta 120
 gtgggagaat caaaaatcct ttccagaatg tctgtttctc actacntgca ccgggngatt 180
 acaggcacca gtgcagngat gattgtactt atttgacaca tactccccgt cntcctggnt 240
 nttgttcctg anaanggtgg gtaaatattc caggaaaaan aatgcacatt gaatggatgt 300
 gagagaccac attgcctctc ccactgcttt ggggagcact ttctgtcat ttctaactta 360
 ccacntgctt ggtgtactat atgtatgttg tgcctcatat gttgcaaaga actaangtga 420
 gt 422

<210> 510
 <211> 238
 <212> DNA
 <213> Homo sapiens

<400> 510
 ccacctatga attggtgggt tacctactca atggatagca gcacgaggac tgctgtactg 60
 caaaaaaga agaccaaaag attacagtgg accatgggat acagaagcca gcatggcaga 120
 cagaagaaaa atagtttggg aacatgtaac tatectaagt ggaagttttg ttgtaggaat 180
 tatagtaatc acaccacatt acttggcctt tcggtaatgt gaaaaaaaaa aaaaatcc 238

<210> 511
 <211> 254
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 34, 169, 228
 <223> n = A,T,C or G

<400> 511

```
ccnattgatt tgatggtaag ggaggggatcg ttgnggctcg tctgttatgt aaaggatgcg 60
tacggatggg agggcgatga ggactaggat gatggcgggc aggatagttc agacggtttc 120
tatttcctga gcgtctgaga tgtagtatt agttagtttt gttgtaagng ttaggaaaag 180
ggcatacagg actaggaagc acgataagga aaatgactat gagggcgnga tcatgaaagg 240
tgataagctc ttct 254
```

```
<210> 512
<211> 269
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 38, 49, 103
<223> n = A,T,C or G
```

```
<400> 512
cctacctgta aactacagta ctttatatat ctatgggntt aataaaaaana aaatccacaa 60
atcttaaaaa ggaactttaa atgcagggct atattgaatt ggnaaactgc aacacaaact 120
ggcgcaacat aggtaaatga ataccaatct cactctatgt gatgcaagca tgctactttc 180
ccactaatTT aaattacttt caaccactat gagccagaat gcatgcctga accttaaact 240
gcactttaaa aagtaacatc ttggcctaa 269
```

```
<210> 513
<211> 266
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 34, 79, 137, 149, 154, 157, 217, 245, 251
<223> n = A,T,C or G
```

```
<400> 513
ggaggggggt tgtagggggg tcggaggaga aggntgggga acagctaaat aggttgttgt 60
tgatttggtt aaaaaatant aggggggatga tgctaataat taggctgtgg gtggttgtgt 120
tgattcaaat tatgtgnttt ttggagagnc atgncantgg tagtaatata attgttgaga 180
cgattagttt tagcattgga gtaggttttag gttatgnacc gtactctagg ccatatgtgt 240
tgganattga nactagtagg gctagg 266
```

```
<210> 514
<211> 271
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 9, 32, 33, 39, 51, 52, 61, 62, 65, 75, 108, 112, 120, 123,
127, 129, 132, 141, 142, 157, 173, 179, 210, 219, 220, 224,
231, 232, 235, 240, 242, 245, 251, 259, 266
<223> n = A,T,C or G
```

```
<400> 514
acatgcaana aatcgagaat cttaaaaaac annacgaanc tgccttgga nncttactgg 60
```

```

nntangatat ttatnttgcg gctgagatac ttgaacaact tcggatcnga antagacaan 120
aanggnant tntatactgc nncagagggt acacagntca ttgtattaga gangaacana 180
tgggtctggg gttcacacat tggggggaan atgggcgttn acangagagg nnganaaacn 240
anganagcct ncctgggtng cataanaaaa a 271

```

```

<210> 515
<211> 328
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 25, 32, 64, 112, 125, 149, 157, 202, 216, 245, 256, 267,
297
<223> n = A,T,C or G

```

```

<400> 515
ccaatgaggg gcaaagtgag cgncnagaag angttttgac tgaaataaat caaacacaaa 60
aatntaagtt cacagtgaca gtttaaacaa aatccaaaca aactaacaac anaaacaccc 120
cttgntttgc ctctagtggg aggtgggana acacaanctc gtcctaataa ttgactagta 180
aaggggaaaa cccggtcatt tncctactct ttccangaaa tatctaatac aagaaagaac 240
ttctnctcat tatacngaag gaatttngaa aaatgatgta tttttggaac acctaantga 300
aatactggaa cctgggcaag ttcaccac 328

```

```

<210> 516
<211> 220
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 5, 52, 118, 162, 168, 174, 195
<223> n = A,T,C or G

```

```

<400> 516
ncctnagttg aaggacccca tgtacatata ggccagggga gcagtactag gntaactaga 60
aggatctcat ccccatatgt gggctcattt caagtctatg gatgactacc ttcattgntg 120
tgtgagagat ggtttcaccc cttgaaaata tgggcacttc ancataanat agcnaaatct 180
ttataatgat caatncatcc tacctccttt tacatgcatg 220

```

```

<210> 517
<211> 296
<212> DNA
<213> Homo sapiens

```

```

<400> 517
tgcgatttct tccttggtgt ttgctttggg ctgtgttcaa tccagagagc ttaaattgtc 60
attattttgg gaagaaaacc tgtatttttg ttagttttaca atattatgaa atttcacttc 120
aggagaaact gctgggcttc ctgtggcttt gttttcttag tttctttttc cgtgccgtgt 180
attttttaat tgatttttct tcttttactt gaaaagaaag tgttttatatt tcaaattctgg 240
tccatattta cattctagtt cagagccaag ccttaaactg tacagaattt ccactg 296

```

```

<210> 518
<211> 299

```


<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 36
<223> n = A,T,C or G

<400> 518
gaagatagaa aaatataaag ccaaaaattg gataanatag cactgaaaaa atgaggaaat 60
tattggtaac caatttattt taaaagcccg tcaatttaat ttctgggtgg gcagaagtta 120
gaaggtaaag cttgagaaga tgagggtgtt tacgtagacc agaaccaatt tagaagaata 180
cttgaagcta gaaggggaag ttggttaaaa atcacatcaa aaagctacta aaaggactgg 240
tgtaatttaa aaaaaactaa ggcagaaggc ttttgggaaga gttagaagaa tttggaagg 299

<210> 519
<211> 464
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 455
<223> n = A,T,C or G

<400> 519
gctgcacatc ggaggaaaac tcggtaaagc agaatgaggt tgatatgttg aatgtatttg 60
attttgaaaa ggctgggaat tcagaaccaa atgaattaaa aaatgaaagt gaagtaacaa 120
ttcagcagga acgtcaacaa taccaaaagg ctttggatat gttattgtcg gcaccaaagg 180
atgagaacga gatattccct tcaccaactg aatttttcat gcctatttat aaatcaaagc 240
attcagaagg gggtataatt caacagggtga atgatgaaac aaatcttgaa acttcaactt 300
tggatgaaaa tcatccaggt atttcataca gtttaacaga tcgggaaact tctgtgaatg 360
tcattgaagg tgatagtac cctgaaaagg ttgagatttc aaatggatta tgtgggtctta 420
acacatcacc ctcccaatct gttcagttct ccagngtcaa aggc 464

<210> 520
<211> 221
<212> DNA
<213> Homo sapiens

<400> 520
ctgatatcta cttattttaac acaagtctct aatacaatac aattttatta attttattcc 60
acatgccccca cattagatct ctagactcat tcatcctaca tacctacttt gtatcctttg 120
acctacatct ccctacttcc tcctccagtc cccaccccc acccactggg gctaaccact 180
gtttcattcc ctttttcatt ctacatatgt gagatcatgc t 221

<210> 521
<211> 312
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 37, 38, 238

<223> n = A,T,C or G

<400> 521

```
ctgatagctt tctcttcgcc tagattaata tcttctnnct tcccattcac agccccacc 60
gacatcaaag ctttgctggt ttatctgtca aaaatgtctt cacacttttc attcttaaatt 120
aaaagtgtg agtaaggaca ttttcacaac aaatttttat ttacaaaac ttacaatgat 180
ttgaatccaa aacaactttc attatttaac tgtaaagtaa atatatattt tattaggngt 240
gtcttagttc attttgtgct gctttaacag tgtatccttg tgatagttgt ggggtggggg 300
aggggggaag ga 312
```

<210> 522

<211> 336

<212> DNA

<213> Homo sapiens

<400> 522

```
ccttctttcc ccaactcaatt cttcctgccc tgttattaat taagatatct tcagcttgta 60
gtcagaccca atcagaatca cagaaaaatc ctgcctaagg caaagaaata taagacaaga 120
ctatgatatc aatgaatgtg gggttaagtaa tagatttcca gctaaattgg tctaaaaaag 180
aatattaagt gtggacagac ctatttcaaa ggagcttaat tgatctcact tgtttttagtt 240
ctgatccagg gagatcaccc ctctaattat ttctgaactt gggttaataaa agttttataag 300
atttttatga agcagccact gtatgatatt tttaag 336
```

<210> 523

<211> 172

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 5, 9, 11, 21, 49, 56, 60, 65, 66, 83, 88, 92, 113, 129

<223> n = A,T,C or G

<400> 523

```
ngacnggcnc ntggctatgt ntatagatag ggctttaacc actatctgng aagcangagn 60
gacannattc ttgctctcac atnccacngg anacgtatct ctcttctctt acnagcgaag 120
aaccatctnt ttctaaagcc cccattctat tgcccttgct tttctctggc tt 172
```

<210> 524

<211> 471

<212> DNA

<213> Homo sapiens

<400> 524

```
ccagacctgc agaaaaactt agcacagctc aatctgctgt tttgatggct acagggttta 60
tttgggtcaag atactcactt gtaactattc caaaaaattg gagtctgttt gctgttaatt 120
tctttgtggg ggcagcagga gcctctcagc tttttcgtat ttggagatat aaccaagaac 180
taaaagctaa agcacacaaa taaaagagtt cctgatcacc tgaacaatct agatgtggac 240
aaaaccattg ggacctagtt tattatttgg ttattgataa agcaaagcta actgtgtggt 300
tagaaggcac tgtaactggt agctagttct tgattcaata agaaaaatgc agcaaaacttt 360
taataacagt ctctctacat gacttaagga acttatctat ggatattagt aacatttttc 420
taccatttgt ccgtaataaa ccatacttgc tcaaaaaaaaa aaaaaacctt c 471
```

<210> 525

<211> 332
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 36, 60
 <223> n = A,T,C or G

<400> 525
 cccnctgta ttccagcctg ggtgacccca tctcanggae gaaaagttac cagatgtcgn 60
 gggtaaagggt tgggtcttcaa gtggcctcat aagttgtctt gcattttaaatt tcagggaatt 120
 cattggacca ataggttaca ttttcgttcc ttttttggtt tgggttcatt gttaagcagt 180
 gggggcctaa ttactgctcc ttgtgtaaaaa cacattttcc caaagaacac tgaattaccg 240
 ttcaaactgg ttgttgatgg gtaataagggt ctgtttttgc tgccccaaaaa gggcttaaca 300
 atttaggcgg atagtttact taaaaaaaaa aa 332

<210> 526
 <211> 440
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 36, 241, 258
 <223> n = A,T,C or G

<400> 526
 ccagggttacc tcccctaaca gatgtggtgt tctganggggt tgggttaagtg cccgaggaaa 60
 ataggcctta actgttaaca tctacagaga agaaagcatg gtcacactgg caaggagtaa 120
 gaagggattg ggtaaaagaa aatgggagag aaaagggaaa aaagttttgg caagacaatt 180
 gttccctgct aagaagctgc agggtgaaag ctttcctttc ttctattttt gtttttaattg 240
 nctgtctctc tgatcagngg aaaagtgaag atttctagta tctagcacta acgtatgacc 300
 caactttgag ggatcacaag ctagaacaag ttgaggattt aaaatcctgg ataattatat 360
 acttaaagtt catgagcata aagctcactt gaccatgcag aaatgctggg aagcagggtg 420
 catggcatgg gaatacatct 440

<210> 527
 <211> 124
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30
 <223> n = A,T,C or G

<400> 527
 tttccatatg tctgttgggt gcataaatgn cttcttctga gaagtgtctg ttcctatcct 60
 ttgccccctt tttgaggact taaatgtag acctaagacc ataaaaacc tagaagaaaa 120
 ccta 124

<210> 528
 <211> 162

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 35
<223> n = A,T,C or G

<400> 528
ctgcgggaga aatatgggga caagatgttg cgcangcaga aaggtgaccc acaagtctat 60
gaagaacttt tcagttactc ctgccccaaag ttcctgtcgc ctgtagtgcc caactatgat 120
aatgtgcacc ccaactacca caaagagccc ttcctgcagc ag 162

<210> 529
<211> 409
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 34, 35, 270
<223> n = A,T,C or G

<400> 529
cctttaaaat atagcttata aaatgtatac tatnngccag gagagctcac atttttctgc 60
agttttccag tggacctgcc tatggaatac tgtaaagaaa aatctgcaaa aatattccta 120
gcaattgaat cagtgccttt aaataaaaga agtggagagg ggcttggtta aattattctg 180
acaagttttc ttgctagtgg ttgccaaaat taaggatatt tgaagtgtcc tatcacccaa 240
at ttggccttt aagaaaaagc tatattctgn gtctataggg tgaagcccac actatctgtg 300
ctgcattctc aatgatacaa tacctatctg gaaactttcc tgttttgcca atgggtgcac 360
aaatctaaaa cattttatca caaaagggtac ttgaatttaa atttctttt 409

<210> 530
<211> 325
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 39, 47, 96, 254, 264
<223> n = A,T,C or G

<400> 530
ccgccagtgt gatggatata tgcagaattc gccctttcna gatttgngcc cgggcaggtc 60
catggctagg attatagata gttgggtggt tggggnaaat gagtgaggca ggagtccgag 120
gaggttagtt gtggcaataa aaatgattaa ggatactagt ataagagatc aggttcgtcc 180
tttagtggtg tgtatggcta tcatttggtt tgagggttagt ttgattagtc attggttggt 240
ggtaattagt cggntgttga tganatattt ggagggtggg atcaatagag ggggaaatag 300
aatgatcagt actgcggcgg gtagg 325

<210> 531
<211> 173
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 531
 ccaattgatt tgatggtaag ggagggatcg ttgaccncgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt tag 173

<210> 532
 <211> 395
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 331, 344, 369
 <223> n = A,T,C or G

<400> 532
 caggtcctac tatgggtggt aaatttttta ctctctctac ngggtttttt cctagtgtcc 60
 aaagagctgt tcctcttttg actaacagtt aaattttaca ggggatttag agggttctgt 120
 gggcaaattt aaagtgaac taagattcta tcttggacaa ccagctatca ccaggctcgg 180
 taggtttgtc gcctctacct ataaatcttc ccactatttt gctacataga cgggtgtgct 240
 ctttttagctg ttcttaggta gctcgtctgg tttcgggggt cttagctttg gctctccttg 300
 caaagttatt tctagttaat tcattatgca naaggatatag gggntagtcc ttgctatatt 360
 atgcttggnt ataatttttc atctttccct tgcgg 395

<210> 533
 <211> 290
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 215, 216, 237, 244, 249, 265, 267, 283
 <223> n = A,T,C or G

<400> 533
 ctgaaccatt atgggataaa ctggtgcaaa ttctttgcct tctctacttc tcaactgattg 60
 aacataagct tccagggtc cctgaaaac caaatgaaa acaatgtcaa aatattagat 120
 aaatcacata aaacagttaa ggggatacca atatataaaa attattaggt aagctcattt 180
 ctggaactgt taatgctcgg ttccacaatc caagnngacc aacagccttc actcagntac 240
 tggnagtgnt actatgggta ctacngntac ta'ccttttagt gtnaaaaact 290

<210> 534
 <211> 334
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 43, 44, 96, 126, 219, 228, 239, 248, 263, 287, 299, 310,
318, 322, 323, 330

<223> n = A,T,C or G

<400> 534

```
ccgccagtgt gatggatatc tgcagaattc gcccttagcg agnnagccgg gcaggteccat 60
ggctagggttt atagatagtt ggggtggttgg tggggnatga gtgaggcagg agtccgagga 120
ggttanttttg tggcaataaa aatgattaag gatactagta taagagatca ggttcgtcct 180
ttagtggttgc gtatggctat catttgtttt gagggtagnt tgattagnca ttgttgggng 240
gtaattantc ggctgtttgat ganatatttg gaggtgggga tcaatanagg gggaaatana 300
atgatcagtn ctgcggcngg tnngacctcn gccc 334
```

<210> 535

<211> 557

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 536, 538

<223> n = A,T,C or G

<400> 535

```
nccataagct tcagtgcgca aaagggtcaag gccagtgtta atttgttatt tcttaaataa 60
ctttcccttt cattttttaa ttataaattt aacttctaac atgttttatg gttaaaattg 120
tacttttttc ctttagcgac attcaaatgc atcacaaatca ctttgtgaaa ttgttcgcct 180
gagcagagac cagatgttac aaattcagaa cagtacagag cccgaccccc tgcttgccac 240
tctagaaaag tatgtgtaaa actctgttct tgttcttctt tcatattgat gctgttccat 300
gtgtttaccat tgtgagtggg tggtaagtgt tccttatgtg ggaatcatgt gccttgaaaa 360
taaccttggg tgggtgagaa ggtagggaaa cctgcttctt ttatctcaag taaaagtttt 420
ggcagggtaa agaagataaa tgacatttat atctagactt ttgagttttc caattatttg 480
gtaaaaatgg gaaattctgt agaagccctt ccttaaaaat gggggaagtc catttnanaa 540
aattaactgg taggtca 557
```

<210> 536

<211> 372

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 37

<223> n = A,T,C or G

<400> 536

```
gttccaacct tcattttctga aactgttcta gagcacngtg tctttctcgt agttcataac 60
ttacccttct agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta 120
agctcctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180
ctcatatcta gagtcttttag atgaaactta ctgagttgaa taacttaata tatttctggt 240
ttcattccca agggaggcca tgtctggaga tagaccttga atttaataaa ttttaggcac 300
tataaccatt cagtggagaa aattgttggg aaatttgggg ggatggatat ataaggggga 360
ggaagtcact gg 372
```

<210> 537

<211> 284
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 537
 ccttctgatg caaacagaaa ggaaatgttg tttggangcc ttgctagacc tggacatcct 60
 atgggaaaat ttttttgggg aaatgctgag acgctcaagc atgagccaag aaagaataat 120
 attgatacac atgctagatt gagagaattc tggatgcgtt actactcttc tcattacatg 180
 actttagtgg ttcaatccaa agaaacactg gatactttgg aaaagtgggt gactgaaatc 240
 ttctctcaga taccaaacaa tgggttacct agaccaaact ttgg 284

<210> 538
 <211> 293
 <212> DNA
 <213> Homo sapiens

<400> 538
 gtacatagta ggtgtatata tttatgggct atataagatg ttttgataca ggcatgtaat 60
 gtgaaacaag cacatcaaca agaatgggggt atccatcccc taaaacattt gtcctttggg 120
 ctacatgtca tttcctaattg taaagaaaat ggacagacag aaccaacatt gatttgactg 180
 ggtgaaaaag tccatttgag ttggggagcag gggttgtgtt cctggatttg ggttgtagg 240
 acagtgtaaa aaggcttcac aggggaacat tcttttctga taaaggaaag cag 293

<210> 539
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 35, 36, 59, 251, 367, 436, 437
 <223> n = A,T,C or G

<400> 539
 tttcnataaa ctttattttt agagcagttt taagnnggta gcaaaattga ttagaaggna 60
 cagagatgtc ccatacacct cctactccca cacatgcaca gccttcccca ttatcaatag 120
 cccccaacag agggatacat ttgttaacaa ctgacgaacc tacatatcat tatcacccaa 180
 agtccacagt ttatattatt ctttctggag aattttcaaa tacagaaatt cctctaccag 240
 gaataaacta ncaatttcct ctcggtcttc tataaattta attattattt cagaaattag 300
 cctatcttta caggagaaaa tggtataaac catgaaaaga ctatcaaata cacaagggaag 360
 tgaatgntat ataaaaaatg taccatctcc taaacaacta cctgcattcc cttcttggtg 420
 gtaagttata atttggnata gttctgatca tctgtttaat taatttgc 468

<210> 540
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 35, 360
 <223> n = A,T,C or G

<400> 540
 ctgttttatt aattccccca tttgcagcac acttntctct tccaacattc atcagtcaga 60
 tcagagtecca cgggtcttttc aaaattttaga taaactggct tacattttgt aatgatgtcc 120
 ccagacaaca cccactcca acccattctg tttgttacta ttagtttaca acatgcatgt 180
 gcctttactt tcattttcat agtattttaa aatggaaggg cactcccaaa tttactttaa 240
 cccctttaat aatctctctc ctctgctct ctctggctct ccagacaact gttgatttac 300
 tttcctttat gatggattag tttgcatttt ctagaatttt atatgactga catataaagn 360
 ttttatgttt ctccccttg ggtttcttca tgtggca 397

<210> 541
 <211> 248
 <212> DNA
 <213> Homo sapiens

<400> 541
 cctagatagg ggattgtgcg gtgtgtgatg ctagggtaga atccgagtat gttggagaaa 60
 taaaatgtgc atagtggggg ttttatttta agtttggttg ttaggtagtt gaggtctagg 120
 gctgttagaa gtcctaggaa agtgacagcg agggctgtga gttttagggt gagggggatt 180
 gttgtttgga agggggatgc gggggaaatg ttgttagcaa tgagaaatcc tgcgaatagg 240
 cttccggc 248

<210> 542
 <211> 366
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 75, 123, 364
 <223> n = A,T,C or G

<400> 542
 aatcgccct ctagatgcat gctcgagcgg ccgccagtgt gatggatatc tgcagaattc 60
 gcccttgagc gatanccgg gcagggtccaa ttgatttgat ggtaagggag ggatcgttga 120
 ccncgtctgt tatgtaaagg atgcgtaggg atgggagggc gatgaggact aggatgatgg 180
 cgggcaggat agttcagacg gtttctatct cctgagcgtc tgagatgtta gtattagtta 240
 gttttgttgt gagtgtagg aaaagggcat acaggactag gaagcagata aggaaaatga 300
 ctatgagggc gtgatcatga aaggtgataa gctcttctat gataggggaa gtagcgtctt 360
 gtanac 366

<210> 543
 <211> 460
 <212> DNA
 <213> Homo sapiens

<400> 543
 cctactatgg gtgttaaatt ttttactctc tctacaagggt tttttcctag tgtccaaaga 60
 gctgttcttc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg ggcaaccagc tatcaccagg ctcggtaggt 180
 ttgtcgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240


```

agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
ctatcgcccta tactttatctt gggtaaattg tttggctaag 460

```

```

<210> 544
<211> 116
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 42, 46, 95
<223> n = A,T,C or G

```

```

<400> 544
ccgccagtgt gatggatata tgcagaattc gccctttgga gngctngcgc ccgggcaggt 60
ctgtttcagc agctcctcct tcttcttccc gcgangatct cgagccttga tcttgg 116

```

```

<210> 545
<211> 380
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 18, 102, 104, 123
<223> n = A,T,C or G

```

```

<400> 545
cgacggatcg atnagctnga tatcgaattc ggacgagcat ggcgtattgc tgcagatatg 60
gattcttcag aatgctccat gacaaatgta ctgacgggaa gncnatctaa aggaggcatt 120
gtnatgagag aaaggtctcg agctccagat aaagagagat acagagttct tgggaattgga 180
gttgcagaaa cagtaagaca atcgattgtg gggaagcgtt ctttttagaga atctttggcc 240
ttcactccaa agcgttggtc ttcattcaata ataagtagct cgtgccgaat tcctgcagcc 300
cggggggatcc actagttcta gagcggccgc caccgcggag gagctccagc ttttgttccc 360
tttagtgagg gttaatttcg 380

```

```

<210> 546
<211> 418
<212> DNA
<213> Homo sapiens

```

```

<400> 546
ccagggcaat taggcaggag aaggaaataa agggatttca attaggaaaa gaggaagtca 60
aattgtccct gtttgccgat gacatgattg tatatctaga aaacccatt gtctcagccc 120
aaaatctcct taagctgata agcaacttca gcaaagtttc aggatacaaa atcaatgtac 180
aaaaatcaca agcattctta tacaccaata acagaccaac agagagccaa attatgagtg 240
aactccatt cacaattgct tcagagaata aaatacctgg gaatccaact tacaagggat 300
gtgaaggacc tcttcaagga gaactacaaa ccactgctca aggaaataaa agaggatata 360
aacaaatgga agaacattcc atgctcatgg gtaggaagaa tcaatatcat gaaaatgg 418

```

```

<210> 547
<211> 172

```

<212> DNA
 <213> Homo sapiens

<400> 547
 cctgagggttg ggagaaattt tgtccatttc tttagaacca aaattggcaa ccagagagta 60
 tttggatggt acacaaaata tctagtttcc ctttctagcc taaattgggt tgtttatagc 120
 acccgtctct ccatttgaga aaaatgggta ggatgctggt gcagggatga gg 172

<210> 548
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 340
 <223> n = A,T,C or G

<400> 548
 ggtctgactt aagagaaaca atggaaggca agaggcagta gaataatata ttcaaaagat 60
 gcaaaggaaa aaaacctctc agccacgaat tccttatcca gcaattattt ttcaaaaatg 120
 aaaataacac aaagacttag ccagataaac agaaacatta actgaagttg ttgctggcag 180
 acctaccata taaaaataaa aaactctaaa aaaattccta tggctaaaag caagttacag 240
 aagacagtca cttgaatcca catttttaaaa aaagcactga tatacgtaat attgacatta 300
 taaaagacag taaaaatgca tttcttcttt ataataaatn gcttattaaa taacatgtgt 360
 ataatgg 367

<210> 549
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 549
 ccaaadcaga acctagagt agcattctat aaactcacct ttgctttgat ccttgaagat 60
 cacaagtttt gatactgttg aaatctctac tctttcaaca ctttaattaa atggcattta 120
 gaatttcata tactttctgtt gttgtttcca caatcttaaa ctggatttag aaatacttat 180
 aatgtaaatg caagagcttt aacttagtaa ccgtatttcc tattttttgt tgtttttctt 240
 ttgccagaat ttctgtttgt ctacaataaa gtccagcgaa atacagtatt tggttagggt 300
 acttgtaaac ataaaatttt atcatttgta gagtttttac ttaaccttcc tattctctag 360
 tctctataat ctttcaatga agataaccag ttacgaatat ctctataacc atattagg 418

<210> 550
 <211> 234
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15
 <223> n = A,T,C or G

<400> 550
 cctacccgcc gcagnactga tcattctatt tccccctcta ttgatcccca cctccaaata 60
 tctcatcaac aaccgactaa ttaccacca acactcacia caaaactaac taatactaac 120

```

atctcagacg ctcaggaaat agaaaccgtc tgaactatcc tgcccgccat catcctagtc 180
ctcatcgccc tcccatccct acgcatcctt tacataacag acgagggtcaa cgat      234

```

```

<210> 551
<211> 542
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 14, 29, 160, 190
<223> n = A,T,C or G

```

```

<400> 551
caccctacc ccnntcctca taaaagttnc tctccctgga tcctcttttt ccctcatgag 60
tgcccgggtg cccaagtcaa aaacctggga gtgatataaa ctccccacac atccagtcag 120
tcactcatca actctattga ttctgtctgc taaatatatn tcaattgtat taacttaaac 180
atatgcatan ggcactttct tcttcaactgc atttttgtgg gctgcactta cctttcaggt 240
aacgacaaca ctggcccttc ttgcccttct agtcagaagt gccaaaatga tgagagctag 300
ccatgacaaa cccacagcca acattacact gaatgtgcaa aactggaagg gcatccaaac 360
agaggagggg agagaggaat agacaggaag tcaaactgtc tctgtttaca gatgacatgt 420
ttctatatct ataaagcccc atagtcttgg ccccaaagct tcttctgctg ataaacttta 480
gcaaagtctt agcatacaaa atcaatgtgc aaaaattact aacagtccta tacatcaagt 540
ca                                         542

```

```

<210> 552
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 25, 209
<223> n = A,T,C or G

```

```

<400> 552
cctggntgac aaggagggtgc ctgtnatgtg aagatttgag gaaagagcat tccaggcagg 60
gggaaggcctt gatgcaaagg gtctactgca ggcattagct gagcttattt aaagatcaga 120
atgaaggcca ttgtggctag aacagagtgg acaggaagga atggtaccag gcaaagctga 180
agaagttggc aggattgagc tctcataant catggcaaag agttccattt tcattgtttg 240
acggaaataa attggaaggt cttaagtagg agaagatttg attagattta cattttacga 300
agaagcactc tggatgttat gtgaagaaat ggcctttgca gggcaagggt ggaaacaaag 360
agatcagtta ggaaattatt ggagtagctg aggattggat gaggggatgt g          411

```

```

<210> 553
<211> 631
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 395, 574
<223> n = A,T,C or G

```

<400> 553

```

ccgggattag aactaaaaca agtgagatca cccctctaata tatttctgaa cttgggttaat 60
aaaagtttat aagatTTTTa tgaagcagcc actgtatgat attttaagca aatatgttat 120
ttaaaatatt gatccttccc ttggaccacc ttcattgttag ttgggtatta taaataagag 180
atacaaccat gaatatatta tgtttataca aaatcaatct gaacacaatt cataaagatt 240
tctcttttat accttcctca ctggccccct ccacctgccc atagtcacca aattctgttt 300
taaatacaatg acctaagatc aacaatgaag tattttataa atgtatttat gctgctagac 360
tgtgggtcaa atgtttccat tttcaaatta tttanaattc ttatgagttt aaaatttgta 420
aatttctaaa tccaatcatg taaaatgaaa ctgttgctcc attggagtag tctcccacct 480
aaatatcaag atggctatat gctaaaaaga gaaaatatgg tcaagtctaa aatggctaata 540
tgtcctatga tgctattatc atagactaac gacntttatc ttcaaaacac caaattgtct 600
ttagaaaaat taatgtgatt acaggtagag g 631

```

<210> 554

<211> 558

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6

<223> n = A,T,C or G

<400> 554

```

ccaggntagt ctccaactcc tgaccttagc tgatccaccc acctcggcct cccaaagtgc 60
tgggattaca ggcattgagcc actgcgcccg gccaaacttg atatgcattt ttaaataagt 120
taatacatta ttcattggttt agtctcatta tatattctat ggtccacttt gaaatttcat 180
ctaaccaaaa tcatcttcat cctgcaattt gaggtttgga cacaatgggg attgatcagt 240
aatttcttca tatgcccttt ctcaaggaaa tagtttccta tgaaaaaaa gtcctatgtt 300
ttcatgtaag ttctcttttt ggagaagaaa aggagacatt cttacttagc actctcagtt 360
ttacaaaacg ctgccaacct taaaatttgt ctattgatcc ccaaggcaca caaccaatag 420
tctgtcaata acccggaata acatttcttt aaggccccag taactttcac atgtttgggt 480
tccaatcctc acctagaatc ttgttaagaa aagtaaacca ttcactcctc tagaaactct 540
aaggttgctt cttagggg 558

```

<210> 555

<211> 212

<212> DNA

<213> Homo sapiens

<400> 555

```

ccaggtatTT gcataatggc ttttcttctg ttgcctttgt tcctttgtgg cccagctaa 60
ttgcctgaga gtgccactgt tagttttcaa ctctttctga tagaaaccct gtgtactaac 120
atggaaatct taggtaatct gctttttcaa agcacaatgc agaatttatt ggcggtgggtg 180
taactttaag aatatccgag aagccaccaa gg 212

```

<210> 556

<211> 219

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 214, 216

<223> n = A,T,C or G

<400> 556

```
ccatgtgtct atctggagag aaggggaaac agcaagtgca aaggccctga gatggaacat 60
atctggagaa ttcgaagaat ggtaagaagg ccagagtgga gcagaacaag tgtgggagag 120
agttgtagga gatgagatca aaggctagga atgaagtgta aggccatgtc atgtgacctt 180
gtatgtcctt gtaaggcttt tttttttttt ttttncct 219
```

<210> 557

<211> 482

<212> DNA

<213> Homo sapiens

<400> 557

```
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggtct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgctg tactatatct attgcgccag gtttcaattt 420
ccatcgcta tactttattt gggtaaatgg tttggctaag gttgtctggt agtaagggtg 480
ag 482
```

<210> 558

<211> 679

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5

<223> n = A,T,C or G

<400> 558

```
ctgtnaaaat tctgaacctt tccccaaaag aaaaaccgtg aaatacaagt tttaggaggt 60
ggagcaaaga aaagccaagt tattttaaac caataaacac aagagacaat tctgctggag 120
aatttacttt ctccaaaaca tcaaatggac tttaaagcag aagaccacat tttatgagaa 180
agttatgtca ctgaaaagct tcatgtaaag tgactttgta aatggaatat ttttaaata 240
taaaaagaaa ataacttttc caggaatcct ttggagaggc tgataaccag atattaaatt 300
atcaattttg ccaaagtggg ctttttaaaa atgtgttact tttaaaaact aacttgaaag 360
aatttatgag gcaatctatc tgagtatgtt tattgttgct ccattggctt tcaggatttt 420
ggtcatttca ctgttaactc ttacatcaga gaataaagaa aagaaaatga aactttgtta 480
ggaactggga tggaaaatgt agtcccagac agatctactg acctcgactg agtttcagaa 540
atatcccagg attttggtta ttcattgcctt tcttttgtga ctttctttca aattagccaa 600
ttaaagatac cccttcaatc accggtgaca tcagtacaac agtttttcaa cagttttctc 660
tctcctgacc aaacagttt 679
```

<210> 559

<211> 488

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> 393, 407, 420, 450
 <223> n = A,T,C or G

<400> 559
 cccactgta ctccagcctg ggtgacccca tctcaaagaa gaaaagttac cagatgtcat 60
 gggtaaaggt tgggtcttcaa gtggcctcat aagttgtctt gcattttaat tcagggaatt 120
 cattggacca atagggttaca ttttcgttcc ttttttgttt tggttcatct gttaagcagt 180
 gggggcctaa ttactgctcc tttgtaaaaa cacattttcc caaagaacac tgaattaccg 240
 ttcaaactgg ttgttgatgg gtaacaaggg ctgtttttgc tgccccaaaa gggcttaaca 300
 atttaggcgg atagtttact taaaaaaaaa aatcctttgg agacatactg aaaatgcaaa 360
 ctagtttcta aattatcaat tccctacatg aanaagcagt ttgccanagt ttagtctcan 420
 aaaatgactg gttgggtcta tttaaatcan aaccaattt ctacgcacct gcccgcccg 480
 ccaagggc 488

<210> 560
 <211> 602
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 566
 <223> n = A,T,C or G

<400> 560
 cctanttaag aattccttgc cttagtgggtg aacaaggact aaacacagac aatgggtgaa 60
 acacagacgc taattcacat aacagagagt aggcaacctt aagaatgaat tgatgcagac 120
 tcctatagaa ttcctctgtt atgactgggt tcttattttc tcctccttgt atgtagttga 180
 aatttcatca ttatgaatag ttccttggat ctttttttaa agttgtgaat gcgagtgttt 240
 ggctttgtaa tacaactttt tagtatccag aagataacca gtgctctacc aataaagatc 300
 ttttgataca aagggtttta acttctgccca gttcttactc atttttttca ggttttttat 360
 acatttctta aacaacacat acattatgta aaatataaga attaatgtac attctcaagg 420
 ccagattcag tgacaaaatg cactacccga atctagtaac acatttactc cttgctgcat 480
 ataagtggcg tgtaagaaat acagggtata ttgttttgtg atccatgcag taaatgttca 540
 caaatatcag gcaaacact agacgntctt cagctactaa aattaactgt cccagtcaca 600
 aa 602

<210> 561
 <211> 683
 <212> DNA
 <213> Homo sapiens

<400> 561
 gtctattttt aaaaagaaag aaaaaaacca cttttttata gtccctagct ttgccatatg 60
 cccgccttaa gtggaaggaa agttaatcac ttaactatgt tttataaaaa gaaaaaagg 120
 cttggaatgc tattactgtt cacacaaagt atgattctgt ttgaataagg caaatgctcc 180
 ttttttttaa aaaagacatt actgtaatat caaaaaccgt ggcagtttgt atacaactct 240
 gggcttgatt ttttttaaaa aaacagaatg aattgatgtc ttattttata aatgttctat 300
 atttattagg agaaaacttt atattgcctt ttttatcaat catgtaacag gcttatagct 360
 ttccaacaga gctgcttgcc aaacaatttt ttttgtttat taaacagtgc tgaaacaaac 420
 aggatcagca tttacttaag atgttaagaa tgaggacttt taatcagccg aaccaagata 480
 ttgttacctg tatgcattcc caaagtctag atgctcagta tgttcagtca tatctttcag 540
 aatcagtgaa ccgattaccc ttttttttgg attcactcta catctgccaa cctagttcac 600

cttggttttg tgtctgctgt agaagggaac cataacttgg ttaaaccgta gggattatca 660
 ttgtatacat gctgtgaaca tgt 683

<210> 562
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 562
 gcactttttt tccagtaagg attcatctct tgctctccta tatggtcatt atattttata 60
 ttttacatat ttataaacat gacatatgta tttatgttcc acaaagggct ttgaatagaa 120
 tttacacata gagttccctg gggtgatgtg tttatcaaaa tggaagataa agtgaattaa 180
 ttactttaat atttaacact attgaataga aataatttcc ccaatattgc ttcattgattt 240
 agacagtcta ttaaatgttt aagcaaggca ctagactaag tttattaaga caaatttttg 300
 aatatgtgca gaaatatgac ctggctaata gtacagagtc aaagctgggt gaattgggtgt 360
 atatagtgga ttcagattga tgtggcagtg gtgggttacac taggggcact aaggttatcc 420

<210> 563
 <211> 482
 <212> DNA
 <213> Homo sapiens

<400> 563
 ctccacctta ctaccagaca accttagcca aaccatttac ccaaataaag tataggcgat 60
 agaaattgaa acctggcgca atagatatag taccgcaagg gaaagatgaa aaattataac 120
 caagcataat atagcaagga ctaaccctta taccttctgc ataatagaatt aactagaaat 180
 aactttgcaa ggagagccaa agctaagacc cccgaaacca gacgagctac ctaagaacag 240
 ctaaaagagc acaccgtct atgtagcaaa atagtgggaa gatttatagg tagaggcgac 300
 aaacctaccg ggcctgggtga tagctgggtt tccaagatag aatcttagtt caactttaac 360
 tttgcccaaca gaacctcta aatccccttg taaatttaac tgttagtcca aagaggaaca 420
 gctcttttga cactaggaaa aaaccttgta gagagagtaa aaaatttaac acccatagta 480
 gg 482

<210> 564
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 564
 ctggaagtga aggtactaat atacaaatgg ctcttggttc tgaatatgtg atataatttg 60
 tgaatctttg gaaactgaat tttttctatg gagtgcaaat atagaagggt tattttacaa 120
 tgtttggtgt gaaaagaatt cactttgtta acaactatta aggctggaag tttagtgaag 180
 gtgcatagtt ttgaaagcta cacaggtgaa aaatcaaact tattgtttgt aattttgctg 240
 ttacatgtta agttactttg acagcaattt tctaatagata atgtgattta tgatttaaaa 300
 gg 302

<210> 565
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature

<222> 4, 5, 37, 38, 550, 551

<223> n = A,T,C or G

<400> 565

```
ccanngtgac atcatggcaa tacagcaaga attctgnnat ttatttagaa gcctcaagga 60
gaaggatcct ggagcccctg aatgagagtt tcttctccat gcctctcccc agtcaaaata 120
catggaaata ttcatagaag cattgtaccc agcatgataa ggaaggatgg agaatggttc 180
cttatatctc tgttcacaag acatcaacac tcttaagtaa ctgtatgaaa taaattctct 240
gctgaaagca aataaaccat ctgaaaggtc ttctgggttac ttacacagat ttcctagaga 300
atctgaaatc agcctaacag ggaagattaa tttttaaatg aatccaagtt aatgaaagca 360
aagaactctt atacagaaat acattttcct attataaagc aggactacct tccctaattt 420
ctgatagacc taggacaatt tgaatgggca ttgaaattct tttggttgaa ttacgcaaac 480
aagcaaagga aaagtctcaa ttattattgg aaaatttggg gagagattat tatctcttga 540
tctcctagtn natt 554
```

<210> 566

<211> 631

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 14, 15, 35

<223> n = A,T,C or G

<400> 566

```
ncgaagctgt gaanncattc acacggaatc tgganggtat tactgtaact tcttataata 60
cataatataa aagtttttga aagatataga cacaattaac ccctaaacaa cacactatct 120
gattctcaaa agcaatggct atttaacaag atgtaaaagg acaataacat atcaaagaac 180
tttcacacac ctaaagatag catttagcac caagttagtc agacaaaaca aacataaata 240
tcttcacatt tcctatgttt gtttttaact ttacttcata aagccactga taattgaggt 300
ttctttcaag tataagattt ctaaaattaa aaactgtttt tgacatatat ttataaagaa 360
ataaaaagca aaacgcaatc caactattta tatgagtccc tcttctccaa cagctttaga 420
tgtttttctg agtacttttt acacagaata tttttattaa aatcagttct aattcattta 480
tgcagattag gggaaaatga ttcataataa attaacttta aaattacctt ctatctgctt 540
ctacctctat ccccccatca ccaccaaatc tgttgctaca gtgaactgta gccaatgtct 600
gtttgagggg gcccaaagca tctggtaatc t 631
```

<210> 567

<211> 510

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6, 39, 87, 97, 111, 113, 161, 163, 179, 210

<223> n = A,T,C or G

<400> 567

```
cctatnatag cttctctagc tatcatactc caatcagcna aaaatgagaa aatgttgaga 60
aatagaagat aattcctcat ttaaggncac cttctanaat ttgtgcttaa nantctgttt 120
tcttctcatg ggccagcact tcggcaactg ggaaaaatta ngngtacagg gatctaggna 180
atactgttta tttgagcaat aatatattgn gctaacgttc aggcataccta ttactgagaa 240
ataagggaaa atgagtgtaa agtacaacta agagtctcgg ctacagggaa aaataccatc 300
```



```

agttaaatat ccatagtcct agagcattta tgtaaaactg caatttgaat cctgcaatac 360
atTTTtggtt tttcctcagt gataccatgt gtgggaagtt gttctgtcaa ggtgggtcgg 420
ataatttgcc ctggaaagga cggatagtga ctttcctgac atgtaaaaca tttgatcctg 480
aagacacaag tcaagaaata ggcattggtg 510

```

```

<210> 568
<211> 180
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 11, 34
<223> n = A,T,C or G

```

```

<400> 568
ttaatntgac ncacgcttat gcggaggaga atgntttcat gttacttata ctaacattag 60
ttcttctata gggatgtaga ttggtccaat tgggtgtgag gagttcagtt atatgtttgg 120
gatttttttag gtagtgggtg ttgagcttga acgctttctt aattgggtggc tgcttttagg 180

```

```

<210> 569
<211> 237
<212> DNA
<213> Homo sapiens

```

```

<400> 569
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt caggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaag 237

```

```

<210> 570
<211> 352
<212> DNA
<213> Homo sapiens

```

```

<400> 570
ctgtctctcc atttagagcc ccagttgggtc ctgacctctt acaaatttgg tgttttcact 60
ttgatgttta tgaaccgatt gcattaaaaa tgcaggataa tgattcaggg ttagagaaac 120
tattatTTat acaaatgtgg ttaacacctc atcattttta attggctgtg ctaataatgc 180
tcattgtgct cttcaggggt atgtgtgtgt gtgtgtgtgt gttttgcctg aatctgcaac 240
ctacatttgc tctggcagta tgttgagtat atgctagaat agaattggacc taggcaactc 300
taaggtccta caactaaata cacttactta ggaaacctcc taaataagta gg 352

```

```

<210> 571
<211> 402
<212> DNA
<213> Homo sapiens

```

```

<400> 571
ctgattttta caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180

```

```

gttgaggtgg tctgaatggt ctgacattaa cagttttcca tgaaaacggt ttattgtggt 240
tttaatttat ttattaagat ggattctcag atatttatat tttattttta tttgtttcta 300
ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc 360
ttattgttcc aagacattgt caataaaagc atttaagttg aa 402

```

```

<210> 572
<211> 70
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 57
<223> n = A,T,C or G

```

```

<400> 572
tggatccgag ctcggtacca agcttggcgt aatcatgggc atagctgttt cctgtgntcg 60
ttttacaacg 70

```

```

<210> 573
<211> 423
<212> DNA
<213> Homo sapiens

```

```

<400> 573
ccaatggttt cttagtgaaa gagtacacta gctctgaatg caatgccctc agaaagatat 60
cattcataga gacatacaaa gcacatggca acatgacatt ggaatacacg attctgagca 120
tcttcattca tgaccaacct ggctatagat ttcagatgtc ctcttggctc gaaggatata 180
tgggatatacc atgctcactt gcattccttt ccttttaatt tcattttcta agtccttctt 240
gtattgtttc taaaagaaca gaaaataatc ttggagcttt gcttaagctt taatagcgat 300
gttgaaattt acatgtttga atctcaaagc caccatgtg gaaagaaaac ttatgctctt 360
tccagctatg attcacggca tttattttta actttgtatc ttgctgctgt cttacctggc 420
tgg 423

```

```

<210> 574
<211> 129
<212> DNA
<213> Homo sapiens

```

```

<400> 574
ctgttaaaaag aacaaactta gcaatatata acagtttgct aacaggattt ttgactattc 60
actttgcgag ttatttttta aaatccactt ttttactgag tcttactaca taccaggcac 120
tgtacttgg 129

```

```

<210> 575
<211> 684
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 40
<223> n = A,T,C or G

```

<400> 575

```

ccagatntga cttttcaaaa ctactcacat tgtgaaaaan gcaggaacaa atctagtttc 60
aagttcagca tgccgttccc tgtttaattc ataaaacaca actggcagaa gtattacttg 120
aagcaaaaca aaagtaacgt gggaacttgc ttatttgcta agccacaatg tttttttcca 180
ggaatagcat aaatttgcca tctttcttgt gtctatggaa aaggggttta gaattgtttc 240
actaaaaatt aaatttctat attgtcaaac atgattgtat actcaaattt taaaatgtga 300
aggggaacact tactaagcat ttectgggta tgccactata ttaagtccta gtaatatgat 360
atagttttatt tcaatttttt ttcaactcat acttccttta aatagcact gaccaaaaga 420
aagttaacat gagcttcatg tacaattttt aatctttttg cagaaaaata aactgagaaa 480
ggctaaaatt gttttattta agccactata ccaagacata ttgatttcac caatataaaa 540
attgagatag ttacattttt ttggtacatc tttaaaatct ggtatgtatt tttatactga 600
cagcacatct caatttggac aagctacatt tccagggctc aatagtcacc atgaatctca 660
attgtaatca aagaggttgg cctg                                     684

```

<210> 576

<211> 134

<212> DNA

<213> Homo sapiens

<400> 576

```

ccttatttct cttgtccttt cgtacaggga ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagecgctg cacc                                     134

```

<210> 577

<211> 133

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14, 25, 27, 34, 117

<223> n = A,T,C or G

<400> 577

```

ctgtctctcc attnagaagc cccantnggt cctnacctct tacaaatttg gtgtttttcac 60
tttgatgttt atgaaccgat tgcattaaaa atgcaggata atgattcagg gttaganaaa 120
ctattattta tac                                     133

```

<210> 578

<211> 200

<212> DNA

<213> Homo sapiens

<400> 578

```

cctcaaactc atcttcaaag gtgacccagc aatcagtgtc aatgccttta ctgtagttaa 60
cctggtaatt tcattcttta gtctctccaa gaaaatctga agtgtattag gcaagtcaga 120
acccaaattg tctccaaggt tgcaaataat ttgtcccata caggaaatag ccctttcctt 180
gacttcctga tcaatgtcag                                     200

```

<210> 579

<211> 402

<212> DNA

<213> Homo sapiens

<400> 579

```
ctgatttttaa caataactac tgtgttcctg gcaatagtgt gttctgatta gaaatgacca 60
atattatact aagaaaagat acgactttat tttctggtag atagaaataa atagctatat 120
ccatgtactg tagtttttct tcaacatcaa tgttcattgt aatgttactg atcatgcatt 180
gttgaggtgg tctgaatgtt ctgacattaa cagttttcca tgaaaacggt ttattgtgtt 240
tttaatttat ttattaagat ggattctcag atatttatat ttttatttta tttgtttcta 300
ccttgaggtc ttttgacatg tggaaagtga atttgaatga aaaatttaag cattgtttgc 360
ttattgttcc aagacattgt caataaaagc atttaagttg aa 402
```

<210> 580

<211> 245

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 80, 114, 217, 233, 237

<223> n = A,T,C or G

<400> 580

```
ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgan gactaagatg atggcgggca ggatagttca gacngtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaagaaa atgactntta gggcgtgatc atnaaanggg 240
ataaa 245
```

<210> 581

<211> 294

<212> DNA

<213> Homo sapiens

<400> 581

```
tgcagcgcaa gtaggtctac aagacgctac ttcccctatc atagaagagc ttatcacctt 60
tcatgatcac gccctcatag tcatttttct tatctgcttc ctagtccctgt atgccctttt 120
cctaacactc acaacaaaac taactaatac taacatctca gacgctcagg aaatagaaac 180
cgtctgaact atcctgcccg ccctcatcct agtcctcctc gccctcccat ccctacgcat 240
cctttacata acagacgagg tcaacgatcc ctcccttacc atcaaataca ttgg 294
```

<210> 582

<211> 230

<212> DNA

<213> Homo sapiens

<400> 582

```
gaggtcgccc tcatagtcac tttccttacc tgcttcctag tctgttatgc ccttttctta 60
aactcacaaa caaaactaac taataactaac atctcagacg ctccaggaaat agaaaccgtc 120
tgaactatcc tgcccgccat catcctagtc ctcatcgccc tcccatccct acgcatcctt 180
tacataacag acgagggtcaa cgatccctcc cttaccatca aatcaattgg 230
```

<210> 583

<211> 481

<212> DNA

<213> Homo sapiens

<400> 583

```

ccaaggggtgt tctgcctgcc tcagcctccc aaagtgctgg gattacaggt gtgagccact 60
gtgcctgacc acaggaaaac ttattttaa atgagatttg actcgaaaga tcccgttttt 120
ttaaggctct tagttcttaa aagcggcaca taatagaatt agtataatcc caaataaatt 180
ttcagtagat ttttggtgta acttgagaag atgattctgt catttttagt gacaatttaa 240
aagacctgaa attgtctaca gccatagaaa gtgaactact gatagttggt tctgtaaagt 300
tttattggaa cacaaccaca cctatttggt catctgtatt gtctttggtt actttgtgca 360
gagaccatgg cccacaaacc taaaacattc actttctagc tctttaagaa ataattggcc 420
cactgacacc ctgggtcttaa ggtctagacc aattatttct caagagtatt agctgaatca 480
g                                                    481

```

<210> 584

<211> 306

<212> DNA

<213> Homo sapiens

<400> 584

```

ccaattaaga gctaaattta caaaataatc tctatcagga ggctttaagg tttaatgtct 60
ctaaagtccc tatggatata agaggcttga atgtactgaa ttcaaatttg gtttttaa at 120
gttataatag tttaggcccg agagccacat atttctgtct aagaatagaa agcatagcta 180
gctgcccaca cagaatatc atatatagagt ggggggcaag aacaaaattt attcatttga 240
tacatagaaa tgggactact tagaatagac tcataataga aagcatcatc tggtttctca 300
tctcag                                                    306

```

<210> 585

<211> 308

<212> DNA

<213> Homo sapiens

<400> 585

```

ccagaatggg acagagtgga ggggtgttctg ctaatgactt cagagaagta ttttaagaaaa 60
acatagaaaa acgtgtgctg agtttgccag aaatagatgg cttgagcaaa gagacgggtgt 120
tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatggt tcagcagatt ctgggtatta aaaaactaga acaccagctc ctttataatg 300
catgtcag                                                    308

```

<210> 586

<211> 416

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 105, 119, 132, 139, 140, 144, 159, 160, 208, 226, 230, 247, 250

<223> n = A,T,C or G

<400> 586

```

cctgtctttg aatggatgaa atagggtta ataaaaacatc actgttttaa aactagaaca 60
ctgaaaaatt ctaggaaagc ttattttccc ttatatattt atggnacttt caacacttna 120
caacactatt tnaattaann ttnttcttag agtttatann atatcagtac attcttttct 180
gtggatgcaa taatatagaa tcttattnca aatcttactg gcaggntctn ttaaattctt 240

```

caacggntgn catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
 atgatgacag tcattttata tcaccttcaa ttaccaaca gcttttaata gtctgg 416

<210> 587

<211> 382

<212> DNA

<213> Homo sapiens

<400> 587

cctactatgg gtgttaaatt ttttactctc totacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc ttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagg tatcaccagg ctcggtaggt 180
 ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggtttcg ggggtcttag ctttggctct ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tgggtataat ttttcatctt tc 382

<210> 588

<211> 307

<212> DNA

<213> Homo sapiens

<400> 588

cctactcttc tccgtccatt gtactatctg cccgtgggtg ggatggcagt aggatcatat 60
 ttgatgactt ccgagaagca tattattggc ttcgtcataa tactccagag gatgcgaagg 120
 tcatgtcctg gtgggattat ggctatcaga ttacagctat ggcaaaccga acaatttttag 180
 tggacaataa cacatggact aatacccata tttctcgagt agggcaggca atggcgctcca 240
 cagaggaaaa agcctatgag atcatgaggg agctcgatgt cagctatgtg ctgggtcattt 300
 ttggagg 307

<210> 589

<211> 89

<212> DNA

<213> Homo sapiens

<400> 589

cctgggtgat tgaggatgca atgagctgtg attgtgccac cacactccag cctgggcaat 60
 acagcaagac tgtctcaaaa aaaaaaaaaa 89

<210> 590

<211> 456

<212> DNA

<213> Homo sapiens

<400> 590

cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
 cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcatagg 120
 ggagtttccg atgccagagg atgaaagcaa gtgctctctc caccctctcc tcccagagtg 180
 aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
 cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt 300
 tcaatgctct gaattcaact gacagactaa aggggtgttt ctgtaacagt ctgaaatatt 360
 aagtgttttt tttgttttgt ttttaaactt tatttcagaa aacttctct tggggtagga 420
 aagtacacat gaagcagcaa agtaacgaag aaaaac 456

<210> 591
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 591
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctggttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgcg 289

<210> 592
 <211> 435
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 250, 316, 325, 392, 430
 <223> n = A,T,C or G

<400> 592
 cgcgttagat gcgccttttc cggcctgtgc gtctgctctg gttcctctca ggcagcaaag 60
 ctgggggaagg aagctcaggc aggagcctcc ccgacaccac agcggcacia gcagcagcta 120
 aagcaccgca ctttgctctg ctaacctttt acttaaataa ggttttgcca aatccacatc 180
 tggaaccgca tcacacccat ttgcaaggat gtttggttct tgatgaaact gcatctctac 240
 tgcacatgan ggcttttcatt gtaggacaag aggagagtcc gtttattttt gtaactgttt 300
 tacatgttcc gattanttaa tcggnagctt atgtcatttg ctatgcctgt tgtcttctaa 360
 tctctcctta ctaaaacatt acttcaaatt tnaattgacc cttgtttata atttatttaa 420
 cgggatttgn gtgtc 435

<210> 593
 <211> 633
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 620
 <223> n = A,T,C or G

<400> 593
 ctgttttagtc agataattgt gtccgaattg attangaaaa taatagacca gccataaagc 60
 agcataaaat attatgaaac tattccagaa gttcagtaat atctttggga cctgctcata 120
 gcccaagttt tgtgaatact tttgtagtta aaaaaaattt ttactttacc agggcattgc 180
 aattcttttc catcagtga tttcattcta cagacttttc agagcatctc ataatacagtc 240
 aacaaatcta tttcaaattg gtttggttact aagcaacggg tgctaagagc ttctgtaatt 300
 aagatgaaag ttccaaggta acaatgcccc aacacagcac cattttcacc attttctgat 360
 aatgcaggag taggatggct aaaagtgaag gaagaatcta ctctatggaa agcatggcac 420
 ctgaaatttc tgaagatatt ggctgtcctc tagcttatat gagagagagt gtttgtgctt 480
 tactaatcaa ccagtcattt ttttcttggt tggctgaaat gtacattcca gacatgaaca 540
 ggtagagtat gtgttggggg cagggtttata ctgcatgggt gtgctgagac agggccacgt 600

ggtgatgtaa atgatgctgn ctgacacgtg cag

633

<210> 594

<211> 501

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 34

<223> n = A,T,C or G

<400> 594

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cctttacaag atgctggtac cttgatcttg gacngggcag gctccaagat ggaaagaaag 60
tgagcatctg ctttttaggg attatccagt ctatactact ctgttctagc cacacaaaac 120
aggттаagac agaaattggt accaagagtg gggtggttact acagcaaata cctgaaaatg 180
tagaagaggc tttgaaatgt ggtaattgga agaagctggg agaatttgga ggagtaggct 240
agaaaatgtc tgtattttca tgaatggagc attaagaata attccggtga ggccataggg 300
aaagtctaaa acttttcaga aattatgtaa gcgattgtga ttagtagggt ggtagaaata 360
tagacagtaa aagcaattct gatgtggttt cagaggaaaa tgaaaaatat tagaaactga 420
aggaaggggc atccttgcta taaactggca aagaacttgg ctgaaatgtc tccatgtcca 480
agagatttat ggcagaaatg t 501
```

<210> 595

<211> 383

<212> DNA

<213> Homo sapiens

<400> 595

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ctggtcacca tcatcccttt aatcaactca cacctgttta aagagtgttt ctgatttgac 60
cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
ggctctcatta tcaaaccttt acttatttct gcataatttc tctgggcttc ttctagtttc 180
tgccttacaa gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
gagatggagg atggaaggat tggtagcaga agagggctaa gatacgtttt ctgtcttgag 300
ctgaaagcac agtctactct ctttcgtttt gtcgatgaga aagttgaggg cagaggggag 360
gtgacatggt tagagtcacc cag 383
```

<210> 596

<211> 266

<212> DNA

<213> Homo sapiens

<400> 596

```
ccatggctag gtttatagat agttgggtgg ttggggtaaa tgagtgaggc aggagtccga 60
ggagggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
cttttagtggt gtgtatggct atcatttggt ttgagggttag ttgattagt cattgttggg 180
tggttaattag tcggttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg 266
```

<210> 597

<211> 383

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 597
 ctggtcacca tcatcccttt aatcaactca caccngttta aagagtgttt ctgatttgac 60
 cttcatccct tagtttactg gcgttaaaaa aagtctcagc aattttcatt atttctcgtg 120
 ggtctcatta tcaaaccctt acttatttct gcataatttc tctgggcttc ttctagtttc 180
 tgccttacia gcaatgctgt tctgtaaatt tattgaaacc tctggaacat ttcaccttta 240
 gagatggagg atggaaggat tggtagcaga agagggctaa gatacgtttt ctgtcttgag 300
 ctgaaagcac agtctactct ctttcgtttt gtcgatgaga aagttgaggc cagaggggag 360
 gtgacatgtt tagagtcacc cag 383

<210> 598
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 598
 ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
 ggaggtagt tgtggcaata aaaatgatta aggatactag tataagagat cagggttcgtc 120
 ctttagtggt gtgtatggct atcatttggt ttgaggtagg ttgattagt cattgttggg 180
 tggtaattag tcggttggtg atgagatatt tggagggtgg gatcaataga gggggaaata 240
 gaatgatcag tactgcggcg ggtagg 266

<210> 599
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 201
 <223> n = A,T,C or G

<400> 599
 ccaattgatt tgatggtaag ggagggatcg ttgaccacgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca nataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgccg tgca 294

<210> 600
 <211> 213
 <212> DNA
 <213> Homo sapiens

<400> 600
 agatattggg ctgttaattg tcagttcagt gttttaatct gacgcaggct tatgcggagg 60
 agaatgtttt catgttactt atactaacat tagttcttct ataggggtgat agattgggtcc 120
 aattgggtgt gaggagtcca gttatatgtt tgggattttt taggtagtgg gtgttgagct 180
 tgaacgcttt ctttaattgg ggctgccttt agg 213

<210> 601
 <211> 471
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 601
 ncctactatg ggtgttaaata tttttactct ctctacaagg ttttttcccta gtgtccaaag 60
 agctgttcct ctttggacta acagttaaata ttacaagggg atttagaggg ttctgtgggc 120
 aaattttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180
 tttgtcgcct ctacctataa atcttcccac tattttgcta catagacggg tgtgctcttt 240
 tagctgttct taggtagctc gtctgggttc gggggcttta gctttggctc tccttgcaaa 300
 gttattttcta gtttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360
 ttgggttataa tttttcatct ttcccttgcg gtactatatc tattgcgcca ggtttcaatt 420
 tctatcgcct atactttatt tgggtaaatg gtttggctaa ggttgtctgg t 471

<210> 602
 <211> 482
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 32
 <223> n = A,T,C or G

<400> 602
 tgagcataca gcaataaaaa taacataatt tntatgtgta caatatttat ggaatacgtt 60
 actggaacag ataaataatt tagttaataa catgacaaag aacagaaatt gtatacacta 120
 tacagcatag taatagaata atgaatgatt aaagttatta atattaggta gaaaatgaag 180
 ggtatctttg agagcagaac tcaaggaagc aagcaatttg ccttatgagg aaagagttac 240
 ctgtggataa aggagaaact gaaaaattta caagtcaaga ctttttgagc aaaaacaaaa 300
 atatgactat gagtcaccaa ttcagtagag tgaaaaaaa gttgaagaga tatcttgga 360
 gtaaaccatg ttgtggaaga gcagggtttt gataatcatg ggattattct gaatgaattt 420
 taaatgcgat aggaatatat gagataattt caccagagaa taatatgatc atgtttgcat 480
 tt 482

<210> 603
 <211> 372
 <212> DNA
 <213> Homo sapiens

<400> 603
 gttccaacct tcattttctga aactgttcta gagcactttg tctttctcgt agttcataac 60
 ttacccttct agtctagaat tagaattaca ttatctgttt tactacttta ctagactgta 120
 agctcctaga agataaggac tagggagttc atctctgtat tccaccagaa ggtacagtga 180
 ctcataacta gagtcttttag atgaaactta ctgagttgaa taacttaata tatttctgtt 240
 ttcattccca agggaggcca tgtctggaga tagaccttga atttaataaa ttttaggcac 300
 tataaccattt cagtggagaa aattgttggg aaatttgggg ggatggatat ataaggggga 360
 ggaagtcact gg 372

<210> 604
 <211> 468
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 37, 199, 412, 460
 <223> n = A,T,C or G

<400> 604
 gcngttttga gtgagtttct taatcctgag ttctggnttg attgcactgt ggtctgagag 60
 atagtttggt ataatttctg ttctttttaca cttactgagg agagctttac ttccaagtat 120
 gtggtcgatt ttggaatagg tgtgggtgctg tgctgaaaag aatgtatatt ctgttgattt 180
 ggggtggaga gttctgtana tgtctattag gtccgcttgg tgcagagttg agttcaattc 240
 ctggatagcc ttgttaactt tctgtctcgt tgatctgtct aatgttgaca gtgggggtgg 300
 aaagtctccc attattattg tgtgggagtc taagtctctt tgtagggtcac taaggacttg 360
 ctttatgaat ctgggtgctc ctgcattggg tgcacatata tttaggacag cnagctcttc 420
 ttgttgaatt gatcccttta ccattatgta atggccttgn ctcttttg 468

<210> 605
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 605
 ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttgtagac ctacttgc 288

<210> 606
 <211> 572
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 399, 483, 488, 532
 <223> n = A,T,C or G

<400> 606
 gaatnaaatg aatgaaatag aaaatataat tgagagcttc aacaacagac tataccaaat 60
 ggaggaaaaa atttctgaac ttgaagatag atcttttgaa ataacacaag cagtggcaaa 120
 aatgaattaa aaagaataag gaaagcctaa aggatttatg agatatcatt aagcaagcaa 180
 atattcatac tatgggcatt ccagatggaa aaaagaaggg taaagggtgag gaaatcatat 240
 ttaatgaaat aatagcagaa aatttccgga gtcttgggag agagatgagc atttaggtcc 300
 agggagctca aagaacccca aacagattca acccaaacag gtcctctctg gagcccaaca 360
 tagtcaaatt gtaataagta aaagacaaag aattccaana agcattcaag agaaaagagt 420
 caagtcataa ataagggaat ctccattagg ctaacagcag atatctcagc agaaagctta 480
 cangccanga gagaatggga tgatatattc aaagtacttg aaagcagggg tnggggaaac 540
 cctgctagct aaaaatatta tacccttgca aa 572

<210> 607
 <211> 178
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 37
 <223> n = A,T,C or G

<400> 607
 ctcggggtaa tctcccagca agaggtcagg tcctggntgt gcgtcccagg gtgtcagtga 60
 aattggctgc tcccctgacc cagggcacct tcatgcgtct tcacagcagg actactgtga 120
 ccaaggccag acctttcatc tttcaaaaga ctttgactaa aaatgcttta aaaaagca 178

<210> 608
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 608
 cctgtctttg aatggatgaa atagggttaat aaagaacatc actgttttaa aactagaaca 60
 ctgaaaaatt ctaggaaagc ttatttttccc ttatatTTTT atgggtacttt caacacttaa 120
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcctttct 180
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240
 caacggctgt catagtgatt aaccaaatt agttatgatt tctgcctatc tgtgtgagaa 300
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

<210> 609
 <211> 648
 <212> DNA
 <213> Homo sapiens

<400> 609
 ctgatctctc agcagaaact cttcaaacca gaagagagtg ggggcccaata ttcaacattc 60
 ttaaagaaaa taattttcaa cccagaattt catatccagc caaactaacc ttcacaagtg 120
 aaggagaaat aaaatccttt acagacaagc aaatgctgag agattttatc accaccaggc 180
 ctaccctaaa agagttcctg aaggaagcac taaacatgga aaggaacaac cagtaccatc 240
 gaggctagga agaaaccgca tcaactaagg agcaaaataa ccagctaaca tcataatgac 300
 aggatcagat tcacacataa cgatattaac tttaaagtga aatggactaa atgctccaat 360
 taaaagacac agactggcaa attggataaa gagtcaagac ccatcagggt gctgtattca 420
 ggaaacccat ctcaccgtgc agagacacac atagggtcaa aataaagggc tggaggaaga 480
 tctaccaagc aaatggaaaa caaaaaaagg caggggttgc aatcctagtc tctgataaaa 540
 cagactttta accaacaag atcagaagag acaagaagg ccattacata atggtaaagg 600
 gatcaattca acaagaagag ctaactatcc taaatatata ttgcaccc 648

<210> 610
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 610

```

ccagctcttc tctgtcacat tcctatcttct gacttctgcc tggctttcag tttctgcccc 60
accttggttt tttcccagct tgaacctaat agaactccag agtttggggg gaggcccagc 120
cctttgtttt ctgctcttga agcatattca cacataaaaa gttgtattct cttacacaaa 180
ctgttttgag gctcttaccg tagtcgaagg tatcttagat cttccttagt gatctcatta 240
agaatatccg aaagtgtata accctcttca acaatctgaa acaaagatca gatccttaag 300
agctgagcag                                     310

```

```

<210> 611
<211> 254
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 39
<223> n = A,T,C or G

```

```

<400> 611
ctgttttttac atctaaagca atagactaga actgaattnt cttctacata gtaaaatcac 60
aattgtggaa ttacaggaat tctggtgata ttaaggtgaa acaacaaaac acaaaaggcc 120
ctattttaac agttgatgtg acagtaagtt ttaatagaac ctgtaacttc attttggaag 180
tgcttctcca ccaaataagg cttttttccc ctatttaagg agccagatgg attgaaagat 240
gtggaaatag gcag                                     254

```

```

<210> 612
<211> 225
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 40
<223> n = A,T,C or G

```

```

<400> 612
ctgactatat catgtcacca tcatagccaa tacaacattn ttgccatact tcctaaaaaac 60
cttttcgcat aactgatca tgctacttat cagcactttc taacatcctg accaaacaga 120
caccacacc tcttatagag tacactgtga gagaataaca tggacttgat atggcatcac 180
acttgtttta aagcaaaaaa aaaagaaaaa gaaaagaaaa aaaaa                                     225

```

```

<210> 613
<211> 471
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 226, 236, 243, 281, 324, 365, 370, 373, 376, 383, 400, 412,
429, 431, 458
<223> n = A,T,C or G

```

```

<400> 613
ccatcagact tcttgggtgc ctggctatat tcaatgtgaa gtaaaaaata tcccaagtct 60
tacaccaaaa tagaggctct gacttagaag tatgctttta gctttctttt taaataagac 120

```

```

attctggaag aaaaaaaaag aaaaaggaaa gaaaatcaag tttgaaacac agttaacact 180
tattttggca agaaagcaac caaaatctaa aaagcataaa ctatgngtcc aaatgnaaaa 240
ggnattacag aacaaactgc aagaggggaa aattaaagcc ncactgaacg aaaaaataca 300
gtatgtctaa catttttgaa ttgnaattta aaccctaagg gcaaaagctg aaaaatcatg 360
cttanacctn ggncgngacc acnctaaggg cgaattccan cacactggcg gncgttacta 420
gtggatccna nctcggtacc aagcttggcg taatcctnng catagctgtt t 471

```

```

<210> 614
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<400> 614
gttattttttt agaatggctc tcccatcttg agtatgtgtg atgtttcctc atgtatgaat 60
gaagcatata catctttgtc agaagtatcc cagaagcaat tctgtactct cctcattatg 120
ttctattggg tgggccatgg tttttgattt gtctcattac tgatgatggg tacttttatt 180
at ttgataaa ggttgatat aacttatcta ttatggcata atacattagc taaaaccttg 240
gcggtgtaaa acagcagata cttacgtttc tcataggaat ggctctattg agtacctctg 300
tctcaaggct tctcaagagt ttgtagctac cttgttggct ggggttgcg tctgacctaa 360
aggcttagtt aggggggtgg agaaatcttc catatgttct ttgctacgtg gacctcacag 420
g 421

```

```

<210> 615
<211> 242
<212> DNA
<213> Homo sapiens

```

```

<400> 615
cctcctattt attctagcca cctctagcct agccgtttac tcaatcctct gatcaggatg 60
agcatcaaac tcaaactacg ccctgatcgg cgcactgcga gcagtagccc aaacaatctc 120
atatgaagtc accctagcca tcattctact atcaacatta ctaataagtg gctcctttaa 180
cctctccacc cttatcacaa cacaagaaca cctctgatta ctctgccat catgaccctt 240
gg 242

```

```

<210> 616
<211> 392
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 79, 91, 105, 110, 128, 141, 149, 163, 172, 178, 193, 206,
215, 264, 270, 276, 284, 297, 305, 315, 335, 342, 350, 351,
359, 373, 392
<223> n = A,T,C or G

```

```

<400> 616
cctaatttgt agattgtgaa agcagctttt agtttaactt atttacagac cccttataat 60
taccatgttt tttttttnt tcttaaactc nttggttcag cttgngaata ttacgtgccc 120
gtaaagtngg gatgttgaat nggcccttnt ttgttctggc agngagtcaa gngtccanca 180
ttttttcata agngtttttt aaaatngttc tccancatth tatggctcct ccctcccatg 240
tcctcaaacc cagcaaaagc gtanaggcan aattanagga ccnccccggg cggccgntaa 300
gggcnaattc cagcncactg gcggccgtta ctagnggatc cnagctcggn nccaagctng 360
gcgtaatcat ggncatagct gtttcctgtg an 392

```

<210> 617
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 617
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactac cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
 ttgtcgctc tacctataaa tcttcccact atttt 215

<210> 618
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 8
 <223> n = A,T,C or G

<400> 618
 cttttgtntg cctgttttgt ggactggctg gctctgttag aactctgtcc aaaaagtgca 60
 tggaatataa cttgtaaagc ttcccacaat tgacaatata tatgcatgtg tttaaaccac 120
 atccagaaag cttaaacaat agagctgcat aatagtattt attaaagaat cacaactgta 180
 aacatgagaa taacttaagg attctagttt agttttttgt aattgcaaatt tatatttttg 240
 ctgctgatatt attagaataa tttttaaatg tcatcttgaa atagaaatat gtattttaag 300
 cactcacgca aaggtaaattg aacacgtttt aaatgtgtgt gttgctaatt ttttccataa 360
 gaattgtaaa cattgaactg aacaaattac ccataatgga ttgggttaatt gacttatgag 420
 caagctgggtt tgg 433

<210> 619
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 619
 ctgcagtgtc cttttttata tcatgctagt gttgagacat acttgactaa cttgggaaca 60
 gttcgatata ttgacaaccg tcaacttaag aaaatcaaca gcttttggcc ccagcgtcca 120
 agtgaacttt tcatggagtg cagaatctca aatggacaaa atactttgtc tttttaata 180
 ctgaaaattt aattattagt actatgactg aaagattctt catggctaaa aagctctgca 240
 tcaaactcaa ttcaggagg 259

<210> 620
 <211> 393
 <212> DNA
 <213> Homo sapiens

<400> 620
 ccaccaaagc cacacggaga ttctgtcagg cgctgagaca ccacagcctt ttcaatctta 60
 gggaaagaaa tcaagtcata taaattaata tcaacaggta aggtcattga gcaattgtct 120
 ttcaactgtc taagacttta tcaacttaaga tcataaacac agaagcagggt cataaaaata 180
 gctttttcta aggttttagga gaattttagt gggcacttac ttgataatct gaattttcta 240

```

gtcagaagtt taaataccac cttttaaaaa cataaaattt aatttgtaac aagttattaa 300
caaagcagta ttgtcgaaag ttttaagctt tctcccaata atttaattac attaattaaa 360
tttttaccat tctaattggtt acaaagtaac cag                                     393

```

```

<210> 621
<211> 563
<212> DNA
<213> Homo sapiens

```

```

<400> 621
ctgacaatga taaaattatc tctatatggg caaacgcgtg ctctttgtcg aagaagaaag 60
cttcagcttc atgttccagg tgagttaatt aggcaatgta tgaatgctaa tatctctttc 120
acatatTTTtg ctttaagatct gtcttaggac tctcgtctgg cccatatggg tttccaaggg 180
cagaagggcc tctttttgat gagaggcagt tttcagtaac tcttaaagtg ataacagcaa 240
aggagaggag agagaagagt aagacaaatc gaaacattct tcaattgctt cttggccttt 300
tggttaagct caagctcaaa acaggtcttc aaggagaaaa tacatcacia agaaaaggat 360
gttttatTtc ttaccttgct ctagaaaaat ttccataaac tctattggct taattctgta 420
aacttgacca atatcagagt gcttcctacc aaggagggtg gctgatgagc gtgaccatgg 480
tacatcctag aagaatgtgt gatgaagaag ctttcaccgt gtaaaagagt tgaaaattat 540
tcaaggagac attatggtct tgg                                     563

```

```

<210> 622
<211> 505
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 194, 436, 484
<223> n = A,T,C or G

```

```

<400> 622
tcttaagtgt gtttaataga taaagtaaac tttcctagtc aagggttaga tttttattat 60
ctcttggtgtt ccgactttct acttttcaac tttgaacttc aaaaaaacat tactttgctt 120
atcctttgta ctttgatcag gttgtttaga attgtagatc aaaccattct ttgatcattt 180
tattgttttaa atgnntagtt ccatttataa tttttatagc caactctcgg ttattttctgt 240
cttttgagat tgcaattcag aagctgtatg tcgaagtaat ttatgagttg acttttatac 300
ttaggcttct ttaaatacta atagtcaaga attctagagc atctaataaa aaattaactt 360
tcagatcatt gggaatctgt cctcatttaa atatgtgtaa atgcatttcc acagcaaatt 420
gcttcatgcc ctttgnctat aaggaaatta ttccttgtag ctaatacatt tttcattttg 480
cagnccaaat cttttttgag aaagg                                     505

```

```

<210> 623
<211> 489
<212> DNA
<213> Homo sapiens

```

```

<400> 623
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgctc tacctataaa tcttccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctggtttct ggggtcttag ctttggtctt ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360

```



```

tggttataat ttttcacatc tcccttgccg tactatatct attgcgccag gtttcaattt 420
ctatcgctat actttatttg ggtaaatggg ttggctaagg ttgtctggta gtaagggtgga 480
gtggggtttg                                     489

```

```

<210> 624
<211> 233
<212> DNA
<213> Homo sapiens

```

```

<400> 624
gttggggaac agctaaatag gttgttggtg atttggttaa aaaatagtag ggggatgatg 60
ctaataatta ggctgtgggt ggttgtgttg attcaaatta tgtgtttttt ggagagtcac 120
gtcagtggta gtaatatata tggtgggacg attagtttta gcattggagt aggttttaggt 180
tatgtacgta gtctaggcca tatgtgttggt agattgagac tagtagggct agg          233

```

```

<210> 625
<211> 459
<212> DNA
<213> Homo sapiens

```

```

<400> 625
ttcgagaaca tttttaataa ataatgtgac aaaattactt ttctgattat tggatttttca 60
gtatgcaaaa ttatggctaa aaataagggg cttcttacat gaacataatg aaaacattaa 120
tcacatggat tggtccctta gtactgcacg ctttttctat ggaacttttt caaattatct 180
aaatgaacaa gtttggtttt ggtgaacacc agcctttttt tttgtgggtc agttttgttt 240
ggctttgtct tccactgggg tcagacctga tacttatcta tctatgaata aatgtacatt 300
tttttcttca aatagcacca attataaaat caatgatatt cataaaatga caaaaaagga 360
tcatagaaat ctactagtca gagggcatca tttgtcaatt gaaagcaagt aatgcctcta 420
ttagagattt taaggaaatc ttgtagggtt cgacattgg          459

```

```

<210> 626
<211> 458
<212> DNA
<213> Homo sapiens

```

```

<400> 626
cctgatgatt gtttttaaca gtagaaaggg ttcagctaag aactacagtc cactctcagc 60
cctgtcatgt actataggac aagtcttcat tcacaacaaa tggatagcaa caccaatctc 120
gtaacactgg gaaaactgca tacaatattt agaaggaaca ctaatacagc agaatctgca 180
cacaacggag tcaaagatct gaggccaaat cctactacac ttacgactt tgagttgggtc 240
acttttctga accttagctt ctccatcagt gtaaaactga tgtaaaataa tataaagcta 300
tatgaaagct gatgtgattt acttgtgaaa tagtatgtgc aaaaggactt tgtaaaatgt 360
aaagcactat gctgggttatt gtgatatctg agatattttt aaagttgcaa ttcaattcaa 420
caagcattca ttttagagtca tgtgcaaggc actgtgct          458

```

```

<210> 627
<211> 393
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 5, 6
<223> n = A,T,C or G

```

<400> 627

```
ccatnngaac gcactcagga ggtgggtttgt tctggatgca gaaaccagag atctagtttc 60
tatccacaca gacgggaatg aacagctctc tgtgatgcgc tactcaatag atggtacctt 120
cctggctgta ggatctcatg acaactttat ttacctctat gtagtctctg aaaatggaag 180
aaaatatagc agatatggaa ggtgcactgg acattccagc tacatcacac accttgactg 240
gtccccagac aacaagtata taatgtctaa ctcgaggagac tatgaaatat tgtactggga 300
cattccaaat ggctgcaaac taatcaggaa tcgatcggat tgtaaggaca tttgattgga 360
ccgacatata cctgtgggct aggacttcca gga 393
```

<210> 628

<211> 233

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 35, 36, 192

<223> n = A,T,C or G

<400> 628

```
ctggatttat aaaatagttg aatgacaaaa gaagnntggt ttgacagtaa aaaaaagaca 60
ttatggacaa aatatgcaaa atgtgcaaag aaaaaataaa tttgcattag aaaggtgggc 120
atttgatctc tgagccctgt gccatgtaac attgccatgt tctttcactg ttgtttgaat 180
gttgtacccc ancccttgac tctggactta aggcaagcta tgactggctt tgg 233
```

<210> 629

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 11, 240

<223> n = A,T,C or G

<400> 629

```
ccnggacaat ntaggcagga gaaggaaata aagggtattc aattaggaaa agaggaagtc 60
aaattgtccc tgtttgcaga tgacatgatt gtatatctag aaaaccccat tgcctcagcc 120
caaaatctcc ttaagctgat aagcaactcc agcaaagtcg caggatacaa aatcaatgga 180
cacaaatcac aaacattctt atacaccaat aacagacaaa cagaggccaa atcacgagtn 240
gaactctatt ccaattgctt tcaagaaaat taaaatacct agggatccaa cttacaaggg 300
acatgaagga cctcttcaag gagaaactac aaaccactgc tcaatgaaat aaaagaggat 360
acaaagaaat ggaagaacat tccatgctca ttggtagctt gatgggggatg gcattgaatc 420
tataaattac cttgggcagt atggacctca 450
```

<210> 630

<211> 486

<212> DNA

<213> Homo sapiens

<400> 630

```
cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
```

```

aattttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgccctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctgggtttcg ggggtcttag ctttggtctt ccttgcaaag 300
ttattttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
ctatcgcccta tactttattht gggtaaattg tttggctaag gttgtctggt agtaagggtg 480
agtggg 486

```

```

<210> 631
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<400> 631
tttacataaa tattatacta gcattttacca tctcacttct aggaatacta gtatatcgct 60
cacacctcat atcctcccta ctatgcctag aaggaataat actatcactg ttcattatag 120
ctactctcat aaccctcaac acccactccc tcttagccaa tattgtgcct attgccatac 180
tagtctttgc cgctgcgat gcagcggtag g 211

```

```

<210> 632
<211> 293
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 191, 262
<223> n = A,T,C or G

```

```

<400> 632
cagcgcaagt aggtctacaa gacgctactt cccctatcat agaagagctt atcacctttc 60
atgatcacgc cctcatagtc atttttcctt atctgcttcc tagtcctgta tgcccttttc 120
ctaacactca caacaaaact aactaatact aacatctcag acgctcagga aatagaaacc 180
gtctgaacta ngctgcccgc catcactcta gtcctcatcg ccttcccatc cctacgcac 240
ctttacataa cagacgaggt cnacgatccc tcccttacca tcaaataat tgg 293

```

```

<210> 633
<211> 263
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 194
<223> n = A,T,C or G

```

```

<400> 633
nggtctgcag tgtccctttt tatatcatgc tagtggtgag acatacttga ctaacttggg 60
aacagttcga tatattgaca accgtcaact taagaaaatc aacagctttt ggccccagcg 120
tccaagtga cttttcatgg agtgcagaat ctcaaattga caaaatactt tgtcttttta 180
aatactgaaa attnaattat tagtactatg actgaaagat tcttcatggc taaaaagctc 240
tgcacaaac tcaattcagg agg 263

```

```

<210> 634

```

<211> 491
 <212> DNA
 <213> Homo sapiens

<400> 634
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactaa cagttaaatt tgcaagggga ttttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
 ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggtttctg ggggtcttag ctttggctct ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tggttataat ttttcatctt tcccttgctg tactatatct attgcgccag gtttcaattt 420
 ctatcgctta tactttattt gggtaaattg tttgggctaag gttgtctggt agtaagggtg 480
 agtgggtttg g 491

<210> 635
 <211> 270
 <212> DNA
 <213> Homo sapiens

<400> 635
 ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg 270

<210> 636
 <211> 383
 <212> DNA
 <213> Homo sapiens

<400> 636
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactaa cagttaaatt tacaagggga ttttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
 ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggtttctg ggggtcttag ctttggctct ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tggttataat ttttcatctt tcc 383

<210> 637
 <211> 537
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 26, 516
 <223> n = A,T,C or G

<400> 637
 ttttaatcct ggggtatata ggcagnactt taaattgcaa agtcttccgg gcctattttc 60
 ctctacattt ttgtaattaa ctctgggggc ttacttggtt tggcagtact gaaatcaaag 120

```

gagctgggtc ttctttttctc ccaattattht tcatatgaaa gcacctacaa ttagcctggt 180
agtcctattc agatacatca aatatcagtg aatgctttac tattcgacac ttttaagcatc 240
tttggttttac ataaaattag agtatgaaaa ccagtgttca attttttatc ttgttgagct 300
tgtaaaatgc cagcaattta aaactaggac ttttcccccc ataagccaag gaggtagaat 360
tactaataca agggttaaag aaggtagatt ttgttttcaa tatttgaggta atattagaaa 420
gattcttccc acagggaaga actagcaagt gtcccaattht tttccaaacg ttggggaggg 480
gaaaattcac tgtatcatga aaccctaagg gtttgngtgc acttcctgct ttttagg 537

```

```

<210> 638
<211> 445
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 15
<223> n = A,T,C or G

```

```

<400> 638
ccagcagaac acagnagtga tttgggtcccg tttgttcccc agtgggggtat ctatccttgt 60
gcagggcaca agcctacatg gtggctctgg tcatatcatt agaaaataga cagaaatggg 120
ctgcacacca gaatgaatga attgaattga aaggaggagg tgatgggtgga aaaaaaaaca 180
agtcaattca tttagactgg tagaaccaga accactgtgt agtacatcca aacgggttaa 240
attccctgga agatgttaca taatcctatc atgggtgttt tttatggaaa tctattttta 300
aaattttatg taatactgca cagtctgttt gcatgatgcc ttgtacgtag tagcaactca 360
gtaaatactt tttgaatgaa ctagtatagt attttaatta gctagtcttc gtgtactgg 420
acaaaagaac agtgtcatct tacag 445

```

```

<210> 639
<211> 584
<212> DNA
<213> Homo sapiens

```

```

<400> 639
gcttgagtat tctatagtgt cacctaaata gcttgggcgta atcatgggtca tagctgtttc 60
ctgtgtgaaa ttgttatccg ctcaaattht cacacaacat acgagccgga agcataaagt 120
gtaaagcctg ggggtgcctaa tgagttagct aactcacatt aattgcgttg cgctcactgc 180
ccgctttcca gtcgggaaac ctgtcgtgcc agctgcatta atgaatcggc caacgcgcgg 240
ggagaggcgg tttgcgtatt gggcgctctt ccgcttcctc gctcactgac tcgctgcgct 300
cggctcgttc gctgcggcga gcggtatcag ctactcaaaa ggcggtaata cggttatcca 360
cagaatcagg ggataacgca ggaaagaaca tgtgagcaaa aggccagcaa aaggccagga 420
accgtaaaaa ggccgcgttg ctggcgtht tccataggct ccgccccct gacgagcatc 480
acaaaaatcg acgtcaagt caagagggtg cgaaacccga caggactata aagataaccg 540
gcgtttcccc ctggaagctc cctcgtgcgc tctcctgttc cgac 584

```

```

<210> 640
<211> 404
<212> DNA
<213> Homo sapiens

```

```

<400> 640
ccataggaac gcactcaggc aggtgggtttg ttctggatgc agaaaccaga gatctagtht 60
ctatccacac agacgggaat gaacagctct ctgtgatgcg ctactcaata gatggtacct 120
tcctggctgt aggatctcat gacaacttta tttacctcta tgtagtctct gaaaatggaa 180

```

```

gaaaatatag gagatatgga aggtgcactg gacattccag ctacatcaca caccttgact 240
ggtccccaga caacaagtat ataatgtcta actcgggaga ctatgaaata ttgtactggg 300
acattccaaa tggctgcaaa ctaatcagga atcgatcgga ttgtaaggac attgattgga 360
cgacatatat ctgtgtgcta ggatttcaag tatttggtgt ctgg 404

```

```

<210> 641
<211> 138
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 127
<223> n = A,T,C or G

```

```

<400> 641
ctgtgacagg aacattacct gaagtgcagg gtggttacct gcacaaagtc ccatttccaa 60
aaatttctgt gtaattcacc agaaattttg gatggaataa ttagaaaaaa aaaaagaggt 120
taaaacntgt aactcaaa 138

```

```

<210> 642
<211> 381
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 372
<223> n = A,T,C or G

```

```

<400> 642
ctgtaggtgg aattttttacc cagaaaagat aggccctaga agcctcattt cttttctcca 60
tggaaaagga cagccctctg ctgcagcgtt caacttgtgt gtttactgac agagtgaact 120
acagaaatag cttttcttcc taaaggggat tgttctacat tttgaagtta ttttttaata 180
aaattgaatt atgttggtgta ttgtgcttcc taataggaaa tgcattattg gactgttttt 240
gtaacatcct gtttattgca aatagctagt atcgttcaaa aactgtataa aatacttttg 300
tacatattag caatgtctaa tttgtataca cttcagttaa atttccctaa aacttgaaag 360
gggaccttgt anaaattaaa a 381

```

```

<210> 643
<211> 403
<212> DNA
<213> Homo sapiens

```

```

<400> 643
ccttcctaaa aaatagtggg gagctggagg ctacttccgc cttcttagcg tctgggtcaga 60
gagctgatgg atatcccat tgggtcccgac aagatgacat agatttgcaa aaagatgatg 120
aggataccag agaggcattg gtcaaaaaat ttggtgctca gaatgtagct cggaggattg 180
aatttcgaaa gaaataattg gcaagataat gagaaaagaa aaaagtcatt gtaggtgagg 240
tgggttaaaaa aaattgtgac caatgaactt tagagagttc ttgcattgga actggcactt 300
attttctgac catcgctgct gttgctctgt gagtcctaga tttttgtagc caagcagagt 360
tgtagagggg gataaaaaga aaagaaattg gatgtattta cag 403

```

```

<210> 644

```

<211> 688
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 653, 666
 <223> n = A,T,C or G

<400> 644
 cctatatttatt tgttttggcc ctggatcttt cctaatacaca attatatattc tttatattttg 60
 cctttgagca gtttcattta tctttgtggg cagggaagat taaatatgaa attcagtcca 120
 gtcatttttgc tactgggttag ctttagtttg aggcaagtaa aaatttttga ttaaaattag 180
 tttcttaaaa ttatgccctt gctttaccaa ataatcaaat tggctaaaaa ataaggggtat 240
 gtaacttttgc attttgaaga acaaaccaat aatttttcat gagccctact cgatcttctt 300
 taaagaagac ctctctaaga gacaattagg gatgagtttg attaattggga aatagctcta 360
 ggtagatta ttttaaatte catacaccaa gtgatttaac cacagtggca gtggcagctt 420
 ctgaaccgtc aagtatgaac atcacttaaa aattaaaaga tgcttaataa taaactctta 480
 attttcatta agccaatctg taattcagaa gaaaagcata tgtctgccat gggactattg 540
 cagtgcgtct ccatcagtgt taacacagga gagatatgtt attttatgtg tatgtcttag 600
 tttgggatat gtggtagtaa gaacatgtca agagtgcctt tcttcaaacc tgnacagctca 660
 actgangaaa gacaggtact tccattgc 688

<210> 645
 <211> 484
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 460
 <223> n = A,T,C or G

<400> 645
 ccaaattgtgt ctccagccca cacttccagg tggcagagcg agctctctat tactggaata 60
 atgaatacat catgagttta atcagtgaca acgcagcgaa gattctgccc atcatgtttc 120
 cttccttgta ccgcaactca aagaccattt ggaacaagac aatacatggc ttgatataca 180
 acgccctgaa gctcttcatg gagatgaacc aaaagctatt tgatgactgt acacaacagt 240
 tcaaagcaga gaaactaaaa gagaagctaa aaatgaaaga acgggaagaa gcatgggtta 300
 aaatagaaaa tctagccaaa gccaatcccc aggtactaaa aaagagaata acatgaaaac 360
 gccaggggtt acttgaatgt ttttataaga taggaatata tgtcttcacc atgggggggg 420
 gtctcggatt tcactaacgt tgtatatgaa aatgggtgcn ataaaaagta cttttaaact 480
 ttgt 484

<210> 646
 <211> 447
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 413
 <223> n = A,T,C or G

<400> 646

```

gggtcgcggtt gaacaacttg gttcaagatg gtgggggcat ttttagagcg gcaataattg 60
aaaaaaaaagg cgaactctgc cttggagagg tagatgataa gaaataaaaa ggtgtttata 120
actattttgtt attataaagt gggccttaga gataggaaga agaagatgag attccttttg 180
gatcaatcag aaaggaaaca cgaaagaaaa gtcaggaagg tagagagaga aaaagggagg 240
gaaggagaaa gaatgggaat aaaataagga ggtaagagat actatttttg ctgagcaacc 300
agtgtgtttc aggatgatac aaagaaaaat atagaataga aataagtgca ggcttggaat 360
cagctacaaa tcctaaagat ggggtgtgtg tggatgtgtg tgtgtgtgtg tgnacaccat 420
tgtgtgtttg taaaatgtgt atgtccc 447

```

<210> 647

<211> 388

<212> DNA

<213> Homo sapiens

<400> 647

```

gaagggtgata taaaatgact gtcattcattt ggagtgtgca gtacagttac ttcattgttcc 60
tcagggttagt aacaatttcc cctgcaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttgggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaac ttaattgaaa tagtggttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

<210> 648

<211> 632

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12, 24, 33, 483, 539, 626, 629, 630

<223> n = A,T,C or G

<400> 648

```

cctggctggg cntttgacct gcgnttttaa atnactcaca gaggggtggga caggaggaag 60
agtgaaggaa aagggtcaaac ctgtttttaag ggcaacctgc ctttggttctg aattgggtctt 120
aagaacatta ccagctccag gtttaaattg ttcagtttca tgcagttcca atagctgac 180
attggttgaga tgaggacaaa atcctttgtc ctcactagtt tgctttacat ttttgaaaag 240
tattattttt gtccaagtgc ttatcaacta aaccttgtgt taggtaagaa tggaatttat 300
taagtgaatc agtgtgacct ttcttgtcat aagattatct taaagctgaa gccaaaatat 360
gcttcaaaag aagaggactt tattgttcat tgtagttcat acattcaaag catctgaact 420
gtagtttcta tagcaagcca attacatcca taagtggaga aggaaataga tagatgtcaa 480
agnatgattg gtggaggagg caagggtgaa gataatctgg ggttgaaatt ttctagttnt 540
cattccgtac attttttagt agacatcaga tttgaaatat taatgttacc tcctcaatgg 600
ggtggtatca gacctgcccg ggcggnccgn tc 632

```

<210> 649

<211> 300

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 15
 <223> n = A,T,C or G

<400> 649
 nggtgaagat agaanaaata taagcgaaat tggataaaat agcactgaaa aaatgaggaa 60
 attattggta accaattttat tttaaaagcc catcaattta atttctggtg gtgcagaagt 120
 tagaaggtaa agcttgagaa gatgaggggtg tttacgtaga ccagaaccaa tttagaagaa 180
 tacttgaagc tagaagggga agttgggttaa aaatcacatc aaaaagctac taaaaggact 240
 ggtgtaattt aaaaaaaact aaggcagaag gctttggaag agttagaaga atttggaagg 300

<210> 650
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4, 8, 26, 255
 <223> n = A,T,C or G

<400> 650
 ngtnctgnta aacagaaggg tacaangccc ttctggcttt aagcagtcac aggaatgtga 60
 cagacattcc tcttagggag cgcctcctcc taggggtttcc tcatctgtct cacactgagt 120
 ggatgtaatg ctatttttaat cctgctgtgg cccccaatac tagtacttgt ccataccttc 180
 ttgcattttt agcgtctgct ctgtgggggtt gttaggccct ggcactccca ggaactagtg 240
 ctaaagctgc atctntctct cccctctagg gatcgataaa gtttcactgc agaaagtctc 300
 cactgcggta tgctgacatc tgccctgaac cttcacccta cagcattaca ggctttaatc 360
 agattctgct ggaaagacac aggctgatcc acgtgacctc ttctgccttc actgggctgg 420
 ggtgatcctt ggtgcctttg tttccacaag gccttttctc gccccctgcc ttgccaaaga 480
 catttaatca gcacacag 498

<210> 651
 <211> 654
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 149, 268, 375, 508, 578, 595, 615
 <223> n = A,T,C or G

<400> 651
 ctgaggggtcc ccagggtttct aaagctctca ggacgagaaa gtaggtccca agataaggag 60
 cctaaagggc ttttttcttt ctgtgtattc cttcttggcc tccaacatgg gtacagtcac 120
 aagagcatgt aacagagaag aaggactana cctaccattt tctggataaa gaattggaaa 180
 gaggatccac aggtaaccaa aaagtaccag ggaaatggca gagaaggaaa acctcaggag 240
 accaacctca taagtgggtat ttattagngc ctgggctcaa atccaaattg tacatgaata 300
 tgtctgggtcc tagatagggt accgaagact ttgaaagtga attttgggtat atcattgccc 360
 agattccaga ctggntattg tgtgacacaa catacaggat atatctgaat agtgctcaga 420
 agagtttgaa aatgcaaattg atattaaaat aaagatgaaa aagagaaaagc tggtcagaac 480
 ttgtggacat aacccttctg gatctgtngc ctgattaaaa aatagttgat attctcgaat 540
 gaattaaaac aagattttaga gactgagcat ggtagctnat tcttgtaatc caacnctttg 600
 ggagggcaag gcaanagaat tgcttgccgc caggagtttt gagaccagct tggg 654

<210> 652
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 193
 <223> n = A,T,C or G

<400> 652
 ngctctgttgc actgaggtga ctaaggatac attttgagga agtagctcca agaacatttc 60
 cattttcact gtgccttcac atacatctaa tggaaatgaa cagcaccctt catccatcca 120
 cggaagcgat taagaaaagg gtgggatgga aaaattaacc caacaatatt agatcaatac 180
 gtagtattta agngtccata atgtgccagg ctgaagatgc acgggaaaac cacactagcc 240
 ggtctgtcaa gggcttgaga ataccataaa caagaaaaca gacgaaccaa ttt 293

<210> 653
 <211> 294
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 653
 ngtcaccac tgcagcccta catacagttg aaaaaaaatt ccattctgtt aacattttgtt 60
 ttataagttt tcacgcaata cacaaaaaac ccctctgcac ttcttgtaaa gaacaaaaaa 120
 gatacacaac agttaagcgt aaagatcaca ggcaatagca ttcaaacaatg gatgtgggta 180
 gagaaaggag tacctggcat gagtacctgc ttagtttgac tgaatccttg atttttaatt 240
 tggcttttca tgggccgctc acaacaccaa cgctgtgtga ggtatggtag tcag 294

<210> 654
 <211> 250
 <212> DNA
 <213> Homo sapiens

<400> 654
 ctgtccttga acaagtatca atgtgtttat gaaaggaaga tctaaatcag acaggagttg 60
 gtctacatag tagtaatcca ttgttggaat ggaacccttg ctatagtagt gacaaagtga 120
 aaggaaattt aggaggcata ggccatttca ggcagcataa gtaatctcct gtcctttggc 180
 agaagctcct ttagattggg atagattcca aataaagaat ctagaaatag gagaagattt 240
 aattatgagg 250

<210> 655
 <211> 494
 <212> DNA
 <213> Homo sapiens

<400> 655
 ccattataat ttataaacac cattaccctt taaattctac cgattataag cagcgtaaaa 60

```

gtaactatat aaagcaaaca tcgcaaagga actctgcagg agctcttaat tcctttatgt 120
agctatcata aaattcactt tcctgaagac atttactctc attcacttcc aaactccaaa 180
cctttttctg gtagcaccac ttttgttttt aatagaaaga tgagttcata tctgtacatc 240
tctccaaagc tctaaggaat gagaaaagga tcctagtata ttgaaattac tgatgtttta 300
tacctctgcc ttttcactaa aagccattta atatttttaa agtcaaaact tgacatacag 360
gtattttataa ggaatctcca tgactctgaa ggaatgaaat tgatgtaggt agctttggct 420
atgtaaagac atagtagagg acaattactt aaagaagagt tttcttttga ggatttgtag 480
atttgactaa gcag 494

```

```

<210> 656
<211> 477
<212> DNA
<213> Homo sapiens

```

```

<400> 656
cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacatgg atgccacaca taacttcctt tgtagtttca 120
cagagggcct atttgtgggt gctcagggtg ggtcatacat tgcttgcaga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360
catttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420
tagtttgagt gtagggattc agtaatcaaa gggtgttatt gcaaaagagc caggcag 477

```

```

<210> 657
<211> 576
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13
<223> n = A,T,C or G

```

```

<400> 657
cctctacctg tanatcacta tttttctaaa gacaatttgg tgttttgaag ataaatgtca 60
ttagtctatg ataatagcat cataggacaa ttagccattt tagacttgac catattttct 120
cttttttagc tatagccatc ttgatattta ggtgggagac tactccaatg gagcaacagt 180
ttcattttac atgattggat ttagaaaattt acaaatttta aactcataag aattctaaat 240
aatttgaaaa tggaacatt tgaccacag tctagcagca taaatacatt tataaaatac 300
ttcattgttg atcttaggtc attgatttaa aacagaattt ggtgactatg ggcagggtgga 360
gggggccagt gaggaaggta taaaagagaa atctttatga attgtgttca gattgatttt 420
gtataaacat aatatattca tggttgtatc tcttatttat aatacccaac taacatgaag 480
gtggtccaag ggaaggatca atatttttaa taacatattt gcttaaaata tcatacagtg 540
gctgcttcat aaaaaatctt ataaactttt attacc 576

```

```

<210> 658
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 14

```

<223> n = A,T,C or G

<400> 658

```
cctgaaaaga aagntgctct tatggactct tgcattgttaa gactatgtct tcacatcatg 60
gtgcaaatca catgtaccca atgactccgg ctttgacaca acaccttacc atcatcatgc 120
catgatggct tccacaaagc attaaacctg gtaaccagag attactgggtg gctccagcgt 180
tgtagatgt tcatgaaatg tgaccacctc tcaatcacct ttgagggcta aagagtagca 240
catcaaaagg actccaaaat cccataccca actcttaaga gatttgtcct ggtacttcag 300
aaagaatttt catgagtgtt ctttaattggc tggaaaagca ccag 344
```

<210> 659

<211> 230

<212> DNA

<213> Homo sapiens

<400> 659

```
ctgctttccc tgctaaacag ttccagagca aaagcagcaa aaagaaaata tgggagggat 60
atgggcaacg tatactcgaa cgtacgcaga gaagagagta cggtagctc taatatttct 120
cattgaactt ggtgggtatgt gccttccctg catataaggc catagtgtt ttttgggagc 180
gctagaatat ccatccactt gacagtgtacc acaaaatagg ctgtttccag 230
```

<210> 660

<211> 80

<212> DNA

<213> Homo sapiens

<400> 660

```
ctggtccttg ttaaactcga tcaccacttt ggagagatcg actggaggct cctgggtgtt 60
ctgagggggc tgggggacag 80
```

<210> 661

<211> 535

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 411, 413, 416, 422, 439, 470, 471, 479, 490, 492, 496, 501, 511

<223> n = A,T,C or G

<400> 661

```
ctgaaccata tctgattaac tctttgggtct ctgttatttg aacaaaaccg acgctatgcc 60
tgcagccgcc agactgcaac caaaaacaca gtttgggggtc agaagacatt aaaaatcaca 120
ataaaaatagg atgaatgttc taagtcacgc aactgaatca aggcaccttt ttttttcaaa 180
agcaaaaagt tgtttaacaa tattccagaa tagtagatac ttcaaaaacc agattacagt 240
atatatcatt ttgctgcaca ttttagtcta ttttctgtat acatagtcac acattcttta 300
ccctctccca acttatacat gctttatccc cccagtcatt tgctatgtag gtataaaaaa 360
ataaagtgtg atctaaacaa gtgatttaaa aaaaaaaact aacgaatgcc ncnatnataa 420
cnctgaactt gtttccctnt tgaaggacat tggaaatgtt accgaggtn ntttacctng 480
gccgcaaccn cnctangggc naattccagc nactggggg ccgttactag gggat 535
```

<210> 662

<211> 257

<212> DNA
 <213> Homo sapiens

<400> 662
 cctgactaaa gcacatatca cactccctac acttccatgt tttctctccc atgtggaccc 60
 tctgatgcat atcaagattc aagcgcctgt tgtagccctt cccacagtcc tcacatttgt 120
 atggcttttc tacactgtga actttttctt gcactttaga gaatgaattc tgtacaatgt 180
 tcttcccatg ctgctcacat ttgagagggtg tttctctgct gtggcgtctc tgatgggtca 240
 gacgagttga ggaccag 257

<210> 663
 <211> 516
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 36
 <223> n = A,T,C or G

<400> 663
 ccaattatag gtatatttatt ttttaaagat tagagngttc ttgaagctct ttctatttct 60
 ttgtcaatga actaaacatt ggcaaatatg tagggtttcc cacataagaa cattattaac 120
 atcaaaatag aaagctgggtg gtagaaataa tgattgggaa cacagagtct ctactcagcg 180
 ttctacttct gccataccat aactttgtga tctcacgaaa tatctctcca tgttctcatc 240
 cctatgtata gttctgtcat ttttcaataa gagctttttg cttaattatg aagtactagt 300
 tactataacc attattttga gcttcatgta aatcaagaac acatggactc cacttgcaaa 360
 acattgaaaa tgtagttagg gattgggggc aaaaagcaac attttaaaat gtgtaaagac 420
 aatgagtaag caacaaagtg tccaattttt taggcgaaag ttgcatatgt caggaaaagg 480
 caggattaag taatagagaa tttgaatgat aactgg 516

<210> 664
 <211> 212
 <212> DNA
 <213> Homo sapiens

<400> 664
 gtccgaggag gttagttgtg gcaataaaaa tgattaagga tactagtata agagatcagg 60
 ttcgtccttt agtgttgtgt atggctatca tttgttttga ggttagtttg attagtcatt 120
 gttgggtggt aattagtcgg ttgttgatga gatatttgga ggtggggatc aatagagggg 180
 gaaatagaat gatcagtact gcggcgggta gg 212

<210> 665
 <211> 408
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 18, 24, 270, 271, 275, 277, 280, 281, 287, 291, 295,
 298, 319, 325, 335, 337, 341, 344, 356, 360, 371, 375, 376,
 388, 390, 401, 407
 <223> n = A,T,C or G

```

<400> 665
atccaggggt ncccgggtngc tgcnggggaaa cctccagcct tgttcttcaa accactcagc 60
tcatgtgttt tgcgctgact agtactgaat aatacaacca ctcttattta atgttagtat 120
tatttatttg acaactcagt gtctaacagc ttgatatgca ggtccttgca tcctacattt 180
cttttaggaag ttacccattt gtaactttaa aaacaggaaa aatatcagtt ggcaaagtga 240
atcttttttt tttttaagct aaaggggggn naacngnaan naaaatnttt ntgangtngg 300
gtctataagc acccttgang ggatntgtta aaagngncat naanggggga ttctcntttt 360
gcaaaaaaat ntaannatca atttatanan ctttattttt nactttnt 408

```

```

<210> 666
<211> 635
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 503, 540, 564, 577, 581, 616, 635
<223> n = A,T,C or G

```

```

<400> 666
ctgaagnaca aggggtcaggc aaaaataaga tcacaatcac caatgaccag aatcgccctga 60
cacctgaaga aatcgaaagg atgggttaatg atgctgagaa gtttgctgag gaagacaaaa 120
agctcaagga gcgcattgat actagaaatg agttggaaag ctatgcctat tctctaaaga 180
atcagattgg agataaagaa aagctggggag gtaaaccctt ctctgaagat aaggagacca 240
tggaaaaaagc tgtagaagaa aagattgaat ggctggaaag ccaccaagat gctgacattg 300
aagacttcaa agctaagaag aaggaactgg aagaaattgt tcaaccaatt atcagcaaac 360
tctatggaag tgcaggccct cccccaactg gtgaagagga tacagcagaa aaagatgagt 420
tgtagacact gatctgctag tgctgtaata ttgtaaatac tggactcagg aactttttgtt 480
aggaaaaaat tgaaagaact tancctctga atgtcattgg aatcttcacc tcacagtggg 540
gttgaaactg ctatagccta agcnggctgt ttactgnttt ncattagcag gtgctcacca 600
tgtctttggg gtggnggggg ggagaaagaa agaan 635

```

```

<210> 667
<211> 388
<212> DNA
<213> Homo sapiens

```

```

<400> 667
gaagggtgata taaaatgact gtcattcattt ggagtgtgca gtacagttac ttcatgttcc 60
tcagggttag aacaatttcc cctgtaagtt ctcacacaga taggcagaaa tcataactaa 120
ttttgggttaa tcactatggc agccgttgaa gaatttaaga gaacctgcca gtaagatttg 180
gaataagatt ctatattatt gcatccacag aaaagaatgt actgatatac tataaactct 240
aggagaaaac ttaattgaaa tagtgttatt aagtgttgaa agtaccataa aaatataagg 300
gaaaataagc tttcctagaa tttttcagtg ttctagtttt taaacagtga tgttttttat 360
taacctattt catccattca aagacagg 388

```

```

<210> 668
<211> 498
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 417, 470, 484

```

<223> n = A,T,C or G

<400> 668

```

tgatcttaac aaaattcgta gcagtggaac cttgaaatgc atgtggctag atttatgcta 60
aaatgattct cagtttagcat tttagtaaca cttcaaaggt ttttttttgt ttgttttcta 120
gacttaataa aagcttagga ttaattagaa gaagcaatct agttaaattt cccatttgta 180
ttttattttc ttgaataact ttttcatagt ttttcgttta aaaagattta aaaatcattg 240
cactttgggc agaaaaataa taaatatatc ttatgaatgt ttgattccct tccttgctat 300
ttttattcag tagattttttg tttggcatca tgttgaagca ccgaaagata aatgatTTTT 360
aaaaggctat agagtccaaa ggaatgttct tttacaccaa ttcttccttt aaaaatntct 420
gaggaatttg ttttcgcctt actttttttt cttctgtcac aatgctaagn ggtatccgag 480
gtntttaata tgagattt                                     498

```

<210> 669

<211> 622

<212> DNA

<213> Homo sapiens

<400> 669

```

ccttagccaa agaatgcagt ggagccttcc cccttcaact gcattgtgaa tgaataccaa 60
ttaacagcat aaaaattaat agtcccatat cagatctgga aggggtttct ggggctgtct 120
gatgtcccta tcctgttgta gtgaacacaa tagcagaaaa ttctttctgg gtccatctgc 180
tataaagtct tggtaaaaca gcattactat gaagaggatg aactcaccta ccttcagatg 240
gaggaaaagt gaaaaggact taggccttag tcctccatga cttttcttaa gcactaccta 300
cctgtaataa gctgagtgca aaaggatgcc gaagaaaatc tgcaccaga agctgttaga 360
aagcactgca gagaacaggg tatgaagaaa ataaagagtt ctttaataac ccttaagatt 420
ctttgttcaa ggtaaccttg ccaaaagggc agagtaggtg gcaaagagtt gcttttaatc 480
tagctctaca ctgcatttga aaataaaatt tgcccatttt gaatatattg tttataatta 540
aatgtgcttt ttacactgca ggtcaatata aaaactgggt agtaaatttc cagcgagcat 600
ttatgttcat ttgctcacag ca                                     622

```

<210> 670

<211> 477

<212> DNA

<213> Homo sapiens

<400> 670

```

ttgggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcgggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatttga aaaggttagt aaatgctgca ggaagtggga gggttacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcaagtctat ttatcag 477

```

<210> 671

<211> 127

<212> DNA

<213> Homo sapiens

<400> 671

```

gtgtgtgtgt ctacttgggc gtgtttaacg tgtgcgtttg tgtctgcgtg tgcatgtgtc 60
tgtgtgtgcg cgtgtatttc agtttggggt gccggatccc atatgattgc gtgcctgtgt 120

```

acctgag

127

<210> 672

<211> 400

<212> DNA

<213> Homo sapiens

<400> 672

```

gggtctgcac agctatgtta acagcatcct tataaccagga gtaggaggaa agacacgact 60
ggaaaagcaa ttcaagctgg tcacacagtg taatgcaaaa tatgtggaat gtttcagtgc 120
tcagaaagag tgtaacaaag aaaagaacag aaactcttca gttgtgccat ctgagcgtgc 180
tcgagtgggt cttgcaccat tgcctggaat gaaaggaaca gattacatta atgcttctta 240
tatcatgggc tattatagga gcaatgaatt tattataact cagcatcctc tgccacatac 300
tacgaaagat ttctggcgaa tgatttggga tcataacgca cagatcattg tcatgctgcc 360
agacaaccag agcttggcag aagatgagtt tgtgtactgg 400

```

<210> 673

<211> 600

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 528, 590, 600

<223> n = A,T,C or G

<400> 673

```

ctggcggttg tcattagtga atgtatgaca gcaggatgtg aggggatgcc caggagtcag 60
tgtagcatt gtcactctgag atcactgcta ttaatatcat ccattaattt attagtgagc 120
ttcactatat gcagactggg agataaggag aaaatctgtc acattctctc tagctaataca 180
gatcagctac caattaatga gattctgaat gaaatatcaa tatgtgtttt tctaatttgg 240
acctaggaca gagctgttgc ttgtcataga gaaaaacaat aatgcttaaa catagcacat 300
tataattaaa gcaggtttct cacatacttt tcattttatc ctttggataa ttttgtgagg 360
aacgcaggac accaacttcc ctttcataga tacaatcccc atgctattga tgaaagtgtt 420
tttgaatgaa gccatacaac aaataactga tcaaagtggc attacaccaa aatttcttag 480
taggactcct gcatagaatg tttagataga cgtgaaaagt ttgttcanga ggaccagcaa 540
gagagaaact gggttctttg ggagggtttc ggtgctacat ttataccctn catcagagtn 600

```

<210> 674

<211> 140

<212> DNA

<213> Homo sapiens

<400> 674

```

ggtggttggt gtaaatgagt gaggcaggag tccgaggagg ttagttgtgg caataaaaat 60
gattaaggat actagtataa gagatcaggt tcgtccttta gtgttggtga tggctatcat 120
ttgttttgag gttagtttga 140

```

<210> 675

<211> 245

<212> DNA

<213> Homo sapiens

<400> 675

```

gttgggtggt tgggtgtaa at gagtgaggca ggagtcagg gaggttagtt gtggcaataa 60
aatgattaa ggatactagt ataagagatc aggttcgtcc tttagtgttg tgtatggcta 120
tcatttggtt tgaggttagt ttgattagtc attgttgggt ggtaattagt cggttgttga 180
tgagatattt ggaggtgggg atcaatagag ggggaaatag aatgatcagt actgcggcgg 240
gtagg                                           245

```

<210> 676

<211> 621

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 21

<223> n = A,T,C or G

<400> 676

```

ctgtccccag ggnaaatagt ngaattcaac taagatctgt taataagatg tcagaataac 60
taataatttt attaggaaaa aatcatgttt taaatttcaa aatgacactt atttgtcaag 120
taatatgatc ttggaaaatt ttaaagaaaa ataatcctac ttataaacta cttttttata 180
attgttttca gaaaaaaagt ttacagtcctt aaggaaaata ttcagggtcta tcatatgggt 240
tgacagattt tttaaaaagt atttttggta aggtcttctt ttagaaaaaa attaacttca 300
agggtttttt gtaccactat aatctcta atactactcag aattactgtg tatttactta 360
atttcttatt atgtgcctta ttatgtgctt aagatacaat aggttagagt ttaatctaaa 420
tatcttgaaa gctatatattt gggcttggta agcattttgt tttttctttc tctgttttgg 480
taaggattta aaattttttt cattgcaatt ttaagtgggt ttcaataagt aatagttttt 540
atcaaatttt tgggtgcttgg tgcagagacg gcgtggggaa ggggtgaatgg ttttgggaat 600
aattcagtgc acacctgggg g                                           621

```

<210> 677

<211> 210

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10

<223> n = A,T,C or G

<400> 677

```

tttacataa atattatcag catttaccat ctcaattcta ggaatactag tatatcgctc 60
acacctcata tcctccctac tatgcctaga aggaataata ctatcactgt tcattatagc 120
tactctcata acctcaaca cccactccct cttagccaat attgtgccta ttgccatact 180
agtctttgcc gcctgcgaag cagcggtagg                                           210

```

<210> 678

<211> 383

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 86, 119, 120, 139, 140, 148, 162, 167, 175, 184, 222, 227,

263, 270, 282, 327, 379

<223> n = A,T,C or G

<400> 678

```
gtaggagtca ggtagttagg gttaacgagg gtggtaagga tggggggaat tagggaagtc 60
agggttaggg tggttatagt agtgtncatg gttattagga aaatgagtag atatttgann 120
aactgattaa tgtttggggn tgagtttnta tatcacagcc anaattntat gatgnaccat 180
gtancgaaca atgctacagg gatgaatatt atggagaagt antctanttt gaagcttagg 240
gagagctggg ttgtttgggt tgnggctcan tgtcagttcc anataataac ttcttgggtct 300
aggcacatga atattgttgt ggggaanaga ctgataataa aggtggatgc gacaatggat 360
tttacataat gggggtatna gtt 383
```

<210> 679

<211> 371

<212> DNA

<213> Homo sapiens

<400> 679

```
aaaatgaaaa tattgacaag agtttcagat agaaaatgaa aaacaagcta agacaagtat 60
tggagaagta tagaagatag aaaaatataa agccaaaaat tggataaaat agcactgaaa 120
aaatgaggaa attattggta accaatttat tttaaaagcc catcaattta atttctggtg 180
gtgcagaagt tagaaggtaa agcttgagaa gatgaggggtg ttacgtaga ccagaaccaa 240
tttagaagaa tacttgaagc tagaagggga agttgggttaa aaatcacatc aaaaagctac 300
taaaaggact ggtgtaattt aaaaaaaact aaggcagaag gcttttggaa gagttagaag 360
aatttggaaag g 371
```

<210> 680

<211> 176

<212> DNA

<213> Homo sapiens

<400> 680

```
cctaggattg tgggggcaat gaatgaagcg aacagatttt cgttcatttt gggtctcagg 60
gtttgttata atttttttatt tttatgggct ttggtgaggg aggtaagtgg tagtttgtgt 120
ttaatatatt tagttgggtg atgaggaata gtgtaaggag tatgggggta attatg 176
```

<210> 681

<211> 152

<212> DNA

<213> Homo sapiens

<400> 681

```
ctggagatgg atatgagact agtcaagatg tgaatgctaa ttggagagaa atataatttt 60
aggaagatgc acattgatgt ggggttttga tgtgtctgat tttgactact caagctctgt 120
ttacagaaga aaattgaatg gcgagggtgt gg 152
```

<210> 682

<211> 141

<212> DNA

<213> Homo sapiens

<400> 682

```
ccagtgcttg cttgccgtgg tttagtgatt ggggtgttaga aataaaaaact caggtctatt 60
tcttaccagt cagtaacaat ttttagagaa tgtacttgggt atataatata tggacttcag 120
```

gaactttgtt ggggtggggg g

141

<210> 683

<211> 308

<212> DNA

<213> Homo sapiens

<400> 683

```
ccagcaatgg tacagagtga ggggtgttctg ctaatgactt cagagaagta ttttaagaaaa 60
acatagaaaa acgtgtgctg agtttgccag aaatagatgg cttgagcaaa gagacagtgt 120
tgagctcatg gatagccaaa tatgatgcca tttacagagg tgaagaggac ttgtgcaaac 180
agccaaatag aatggcccta agtgcagtgt ctgaacttat tctgagcaag gaacaactct 240
atgaaatgtt tcagcagatt ctgggtatca aaaaactaga acaccagctc ctttataatg 300
catgtcag                                     308
```

<210> 684

<211> 277

<212> DNA

<213> Homo sapiens

<400> 684

```
tggtattagg attaggatgt gtgaagtata gtacggatga gaaggttggg gaacagctaa 60
ataggttgtt gttgatttgg ttaaaaaata gtaggggat gatgctaata attaggctgt 120
gggtgggtgt gttgattcaa attatgtgtt ttttgagag tcatgtcagt ggtagtaata 180
taattgttgg gacgattagt tttagcattg gagtaggttt aggttatgta cgtagtctag 240
gccatatgtg ttggagattg agactagtag ggctagg                                     277
```

<210> 685

<211> 457

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10

<223> n = A,T,C or G

<400> 685

```
ctgtggcgtn ccctacttct cccaaacctc gcaactccct cccaggacag tcagtgccaa 60
agaaacagggt cgctgaaaac taaaatgtcc acatccctaa ctggcaaccc acatcaaccc 120
caaaagggttg aagaatcatc taagatatct cagatgctct atgaagaaat tcactttaac 180
acttataact gtaagacttt gcatacatta caacagtgca ttagtgatac aagttgtaaa 240
atacgtttcc attccttttg attttgcata tgatggtttt gcatcagtca ctgcaggtag 300
attgagcaag ctttttgtgt ttgttttttt aaacatgcat tcaactagat atgattcaga 360
atagattaat actccctttt tatcactaca gttagctaaa aaattgccag gcagtccaca 420
aaacagaatt tgctttaaga ccaaccaca gagtcag                                     457
```

<210> 686

<211> 234

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1
 <223> n = A,T,C or G

<400> 686
 ntggatttat aaaatagttg caatgacaaa agaagtatgt tttgacagta aaaaaaagac 60
 attatggaca aaatatgcaa aatgtgcaaa gaaaaaataa atttgcatta gaaaggtggg 120
 catttgatct ctgagccctg tgccatgtaa cattgccatg ttctttcact gttgtttgaa 180
 tgttgtaccc cagcccttga ctctggactt aaggcaagct atgactggct ttgg 234

<210> 687
 <211> 315
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 2, 190
 <223> n = A,T,C or G

<400> 687
 nngtctgtga aaaactcttt ggatgattct gccaaaaagg tacttctgga aaaatacaaaa 60
 tatgtggaga attttgggtct aattgatggc cgcctcacca tctgtacaat ctctgttttc 120
 tttgccatag tggctttgat ttgggattat atgcacccct ttccagagtc caaacccggt 180
 ttggctttgn gtgtcatatc ctatttttgtg atgatgggga ttctgaccat ttataacctca 240
 tataaggaga agagcatctt tctcgtggcc cacaggaaag atcctacagg aatggatcct 300
 gatgatattt ggcag 315

<210> 688
 <211> 522
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 31, 32, 387
 <223> n = A,T,C or G

<400> 688
 ctgaattaga ggaggagaaa agaagccatt nnggagtact ttaattgttt agatgtgaga 60
 ggctgaatgt ttgggttaag atgttagttg tcagaatcat gagaaaagg tttaagcaag 120
 gggcatttct aattctaaaa ataacaacta ctgttattta ttgagcacta tctttttgtt 180
 gggactgtgc taaagtactt gattttatctt ttaaaacctt acaaaaaact tacaaggtag 240
 gtactgaaag attcagtaat ttgttcaaag tcacacagca aataagcaac agactctgga 300
 tttgaaccag gcaatcctag agcctgtact gttagtaatt atacttttagc acctgtcaag 360
 aattcctgtt gagtgtcaag aagcaancac caagttagga tttaaagcaa acatgattga 420
 agaatactgt ggtgtggttg acagtagtgc ctaagtctgt ttccagagtg aaaaatgaca 480
 aattagattt taagtatggt ttggagataa tatcaggaca gt 522

<210> 689
 <211> 158
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 11, 13, 15, 34, 51
 <223> n = A,T,C or G

<400> 689
 tctcaactta nttnatacc cacacccacc caanaacagg gtttgtagg nattgtttgc 60
 attaataaat taaagctcca tagggcttc tcgtcttgct gtgtcatgcc cgcctcttca 120
 cgggcaggtc aatttcactg gttaaaagta agagacag 158

<210> 690
 <211> 300
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 33, 261
 <223> n = A,T,C or G

<400> 690
 tagaactcgt atttttaaac ttctattctc tanccttttc cactacatta tgacacaaga 60
 ccctgcagaa agtcgtctgg aaaatatcag accatctctt acttgccca tccaatctta 120
 catcgaatta tatgcaccct taaaaagta tttggagttt taaaaaactc tattagccca 180
 aattacctga aataaactcc tggcttggtc ccctaagtgt tataaaaaat tgattgaaaa 240
 tattcatttt aaaaatgaag ntcttgaatt tatttaaatt actgtcttgc agtgagttgg 300

<210> 691
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 691
 ctgttcagaa agctcattgg acctgggttt gaaaataaaa caaagttaaa accctgggag 60
 gagttattgt gcagtgtgga gtactcaggc tttcttataa agaaaaaaa agttatcttg 120
 taccaaagtg tgcaacctac agaccctcag gtactgccct gtgacttctc tgtatgacat 180
 cacaaggctg ccaagtgcct gtttttctag aactaggagt tggtagggtt tggctagtgc 240
 tgaaaccatg cataggattg gtttactaaa ttaaaacctt attacgtacg tcctccaaaa 300
 gacag 305

<210> 692
 <211> 582
 <212> DNA
 <213> Homo sapiens

<400> 692
 caggaaatgg ataaccattt taactgtatt ttttgcagcc cgtaccttct tgggaataca 60
 attgtctaac tttttatttt tggctctggct gttgtggtgt gcaaaactcc gtacattgct 120
 attttgccac actgcaacac cttacagatg tggaagatgt gaaatttgct atcaattatg 180
 actaccctaa ctctcagag gatttatatt atcgaattgg aagaactgct cgcagtacca 240
 aaacaggcac agcatacact ttctttacac ctaataacat aaagcagggt agcgacctta 300
 tctctgtgct tcgtgaagct aatcaagcaa ttaatcccaa gttgcttcag ttggtcgaag 360
 acagagggtc aggttaaggat gactgatagg aaatgttggt agttacgagt cacatcgttg 420
 tctacaaatc catttaaagt gtattggagg gtgagtaaaa ccttgaatgt gaaaacttaa 480

gctgaaaaat tgtaaaaaca tttcacgcct accatgaata gatctgtttc tttctgtcca 540
 caatgatttg tgtcatagac ataattgatc aatttgcaat tg 582

<210> 693
 <211> 275
 <212> DNA
 <213> Homo sapiens

<400> 693
 ccaattgatt tgatggtaag ggagggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
 agggatggga gggcgatgag gactaggatg atggcgggca ggatagtcca gacggtttct 120
 atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
 gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
 ataagctctt ctatgatagg ggaagtagcg tcttg 275

<210> 694
 <211> 397
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 694
 nggtctgcat ttttattgcg atctgcagat gaactggaaa atctcatttt acaacagAAC 60
 tgagacagac gaccaccata ttcactgagg tctaaatttg cagtttccac taatgacatt 120
 ttgatttccc aacagagata cttctgggtct tactgcacag tcttttaaga gaaatacttc 180
 cattatgcca cattgtcctt gatccgtaag tgatgtgtta aggtgcttca aaggaactct 240
 gacctctgaa gtacttgagc tacttttagta tgtccagcct attgcttttt gtttttagtgt 300
 gtcaccataa atatcagggg cataaaaggc tatctattct taattcaagg ataaaacaga 360
 agaagcttgt ggtataaaac aatagttcaa gatccag 397

<210> 695
 <211> 609
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29, 96, 165, 236, 248, 312, 314, 334, 352, 359, 413, 414,
 472, 525, 547, 583, 609
 <223> n = A,T,C or G

<400> 695
 ctgagcttcc atttgtcagc tagcactgng gtagtcaacc atgcgaatga ggctattttg 60
 gacctcatga ttgtccagtg cctgggctga taccgnggga aacgaaattt tgtggctgcc 120
 caaaaaatca tggaaaataa tgatttttta gaaaacctcc actgntttgt tgtgcagcaa 180
 taaataactg aaacaccaat ccaaaaaact tataaagcta taacaattaa aacagnataa 240
 taatagtncc gggatacaaa aatggtcaaa ttgaagagga taciaagcct caaagcagtc 300
 ctactcata ananccttgt tgtatcacta aaanggcatt aaaattgaga anaaggaana 360
 actagtggat taattaataa atgagaagta tccataagga aaaattaaaa ttnnattctt 420
 gcttcacatt atgaaaaaat acaacaaca gattgattaa agacttaaat gngatcaaca 480

```

aatgttataa actgtgataa gaacatttaa gaaaatagtt ctatnaccct gggataaaac 540
attttcntcc aaggcattaa agtgttaaat gaaaagactg atncatttat tcattagaat 600
ttaaattcn                                     609

```

```

<210> 696
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 696
ctgcaaaata agcgtgctaa attaaattgt cttaagggtt ttccacttca ttttgtgact 60
ttgtgtgggt cgaatttctc agtatattta ccagtgtggt gatgttaaag tcaaaggctg 120
cagtatgtct atattcttgc tgtactcatt ggtagtttca gtatatgtaa tgtgagttta 180
aatagtgaat ttgtatctca tattaacatt tcaaagtctc atattgaaaa tggaaaatag 240
taaacacggg aattgatttt attctgggtg tctataatac ttcattttta atgtaaatgg 300

```

```

<210> 697
<211> 391
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 2, 10, 16, 23, 315, 350
<223> n = A,T,C or G

```

```

<400> 697
nngtcatgtn tgatgnatct gancagggtg ctccacaggt agctctagga gggctggcaa 60
cttagagggt gggagcagag aattctctta tccaacatca acatcttggt cagatttgaa 120
ctcttcaatc tcttgcactc aaagcttggt aagatagtta agcgtgcata agttaacttc 180
caatttacat actctgctta gaatttgggg gaaaatttag aaatataatt gacaggatta 240
ttggaaattt gttataatga atgaaacatt ttgtcatata agattcatat ttacttctta 300
tacatttgat aaagnaaggc atggttggtg ttaatctggt ttatttttgn tccacaagtt 360
aaataaatca taaaacttga acaaaaaaaaa a                                     391

```

```

<210> 698
<211> 536
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 508, 523
<223> n = A,T,C or G

```

```

<400> 698
ctgagcatac agcaataaaa ataacataat ttttatgtgt acaatatatta tggaatacgt 60
tactggaaca gataaataat ttagttaata acatgacaaa gaacagaaat tgtatacact 120
atacagcata gtaatagaat aatgaatgat taaagttatt aatattaggt agaaaatgaa 180
gggtatcttt gagagcagaa ctcaaggaag caagcaattt gccttatgag gaaagagtta 240
cctgtggata aaggagaaac tgaaaaattt acaagtcaag acttttttgag caaagacaaa 300
aatatgacta tgagtcacca attcagtaca gtgaaaaaaa agttgaagag atatcttgga 360
agtaaaccat gttgtggaag agcagggttt tgataatcat gggattattc tgaatgaatt 420

```

ttaaattgcga taggaatata tgagataatt tcaccagaga ataatatgat catgtttgca 480
 tttcaaaggg gtgtatctgg tgcactgngt agaataaata ggntatgtga gcaagt 536

<210> 699
 <211> 419
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 699
 ngtcacactg agggcaggtg acaaggacct gacagagccc atgcagggct ttagatttgg 60
 acacacaaga gttgataact tcctcatgaa ctcttgccct gatctaaact catattatgg 120
 gttctgactg tttgagtaat catcttcaag gttaaacctc ttggcagtta cccttttcac 180
 aaagtgcaca gtgggaatcg agaatcgata ggggttaattt tggagcagtg gcttatacca 240
 ttcacctctg tttttttgtg attatttcac agataatgag accttaataa caaataggcg 300
 taaaaaaatt ttcacattga aatgatagaa acatttgatg taataaaaact tggttggcctt 360
 gatatttttaa ggaattgaaa cctagcaatc ttattggaga gacaagaatt ggtctccag 419

<210> 700
 <211> 336
 <212> DNA
 <213> Homo sapiens

<400> 700
 ccacttattg tccttaaaaa tccatactga tacatggaca gtaagtgtgt tttcagatgg 60
 agtaccagca ccgaaaatgg gttgagggag gatgggttgt atgtatgttt ctgcccacta 120
 attttgagca gccatattat gaattaaatc gtcacagcca agtaataacc caagaatggg 180
 atgagtttca tgtgtaatat ctcaaagtga ataagcatga atgctggagt ggaccattat 240
 cctcaaatat tctatgtcac ttctcattta aagactcttg ttatgaacta ttagaaactt 300
 taggcaaaat caaaagtatt tgcggcaaaa taaagg 336

<210> 701
 <211> 418
 <212> DNA
 <213> Homo sapiens

<400> 701
 ccatgtgatg atgttgacaa ccctgaaga gcctcagtc attgttccac gtttaagaac 60
 taggaatacc aggactgatg caattctact gggtcactat cgcttggtcac aagacacaga 120
 caatcagacc aaagtatttg ctgtaataac taagaaaaaa gaagaaaaac cacttgacta 180
 taaatacaga tatttttcgtc gtgtccctgt acaagaagca gatcagagtt ttcattgtggg 240
 gctacagcta tgttccagtg gtcaccagag gttcaacaaa ctcatctgga tacatcattc 300
 ttgtcacatt acttacaaat caactgggtga gactgcagtc agtgcttttg agattgacaa 360
 gatgtacacc cccttggttct tcgccagagt aaggagctac acagctttct cagaaagg 418

<210> 702
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 104, 178, 184, 240
 <223> n = A,T,C or G

<400> 702
 gggcctgttg tgggggtggg ggaagcaggg aggggaacag ctaaataagg tgctgttgat 60
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtgg ttgtgttgat 120
 tcaaattatg tgttttttgg agagtcattg cagtggtaga aatataattg ttgggacnat 180
 tagnttttagc attggagtag gtttaggtta tgtacgtagt ctaggccata tgtgttggan 240
 attgagacta gtagggctag g 261

<210> 703
 <211> 261
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 40, 104, 178, 184, 220, 246
 <223> n = A,T,C or G

<400> 703
 gggcctgttg tgggggtggg ggaagcaggg aggggaacan ctaaataagg tgctgttgat 60
 ttggttaaaa aatagtaggg ggatgatgct aataattagg ctgnggggtgg ttgtgttgat 120
 tcaaattatg tgttttttgg agagtcattg cagtggtagt aatataattg ttgggacnat 180
 tagnttttagc attggagtag gtttaggtta tgtacgtagn ctaggccata tgtgttgag 240
 attganacta gtagggctag g 261

<210> 704
 <211> 381
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 4
 <223> n = A,T,C or G

<400> 704
 ngtnatgaatt ctattaaaga tacaaagagg agctgggtacc atttcttctg aaactattac 60
 aaacaactga aaagggtgaa tttctcccta attcatttta ggaggccagc attatactga 120
 taccaaaacc tggcagaggt acaataataa aaggaaactt caagtcagta tcaactgatga 180
 acaccaatgt gaaaatcctc aataaaatac tggcaaactg aattcagcag cacatcaaaa 240
 agctaattcca ccacaatcaa gtcagcttca tccctgcatg gcaagtctgg ttcaacatat 300
 gcaaatacaat aaatacaatt catcagataa acagagctaa agacaaaatt cacatgattt 360
 tctcaataga tgcagaaaag g 381

<210> 705
 <211> 477
 <212> DNA
 <213> Homo sapiens

<400> 705

```

ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac 60
ctttgcacgg ttaggggtacc gcggccgtta aacatgtgtc actgggcagg cgggtgcctct 120
aatactgggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga ttgcccaggt 180
tccttttact ttttttaacc tttccttatg agcatgcctg tgttgggttg acagtgaggg 240
taataatgac ttgttggtga ttgtagatat tgggctgtta attgtcagtt cagtgtttta 300
atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagtgc 360
ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat 420
tttttaggta gtgggtgttg agcttgaacg ctttcttaat tgggtggctgc ttttagg 477

```

```

<210> 706
<211> 266
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 100, 115, 157
<223> n = A,T,C or G

```

```

<400> 706
ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggg aggagtccga 60
ggaggttagt tgtggcaata aaaatgatta aggatactan tataagagat caggntcgct 120
ctttagtgtt gtgtatggct atcatttggt ttgaggntag ttgattagt cattgttggg 180
tggttaattag tcggttggtg atgagatatt tggaggtggg gatcaataga gggggaaata 240
gaatgatcag tactgcggcg ggtagg 266

```

```

<210> 707
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 131
<223> n = A,T,C or G

```

```

<400> 707
ccatcagaga aatgcaaata aaaaccacaa tgagatacca tctcacacca gttagaatgg 60
caatcattaa aaagtcagga aacaacaggt gctggagagg atgtggagaa ataggaacac 120
ttttacaccg ntgggtgggac tgtaaactag ttcaaccatt gtggaagtca gtgtggcgat 180
tcctcaagga tctagaacta gaaataccat ttgacccagc cggccaatat tcaacattct 240
taaaggaaag aattttcaac ccagaatttc atatccagcc aaactaagct tcgttagtga 300
aggagaaata aaatacttta cagacaagca aatactgaga gattttgtca ccaccagg 358

```

```

<210> 708
<211> 491
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12, 479
<223> n = A,T,C or G

```

<400> 708

```

cctactatgg gngttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtagggt 180
ttgtcgctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctgggtttcg ggggtcttag ctttggctct ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tatagggtt agtccttgct atattatgct 360
tggttataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
ctatcgcta tactttattt gggtaaattg tttggctaag gttgtctggt agtaaggng 480
gagtgggtt g 491

```

<210> 709

<211> 460

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 1, 197, 216, 231, 313, 389, 411

<223> n = A,T,C or G

<400> 709

```

nggttttttt tgtagagcaa ataatttatg caaatatgt tacaaaatct gggatgctaa 60
atagttgaca caagtactgt gtttgacatt tagtttcatt tgaattagta atagaatttg 120
ctccttccaa catttacatc ttttttcttt ctgactttat atattttcaa taaaaatttg 180
ctccacagtt tttaagntca ttcttcttga atccgntttt acatttgctg ngacaaacct 240
gcataaaact agattttata gatataactt ctttgggaaga gataaaaatt caaaagtttg 300
acattgcttt canttattct tttcttcatt gttttgattg gccctgtta gattgatgta 360
ttgccaatct acttttgatg gcatgaatnt aaaatgacaa cataaaaagc ncttctagtg 420
caacagtaat tgaaacttgc agttttccat taaaaaaaaa 460

```

<210> 710

<211> 542

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 275, 507

<223> n = A,T,C or G

<400> 710

```

ctgttacagt gacaagagat aaaaagatag acctgcagaa aaaacaaact caaagaaatg 60
tgttcagatg taatgtaatt ggagtgaata actgtgggaa aagtggagtt cttcaggctc 120
ttcttggaag aaacttaatg aggagaaga aaattcgtga agatcataga tctactatg 180
cgattaacac tgtttatgta tatggacaag agaaataact gttgttgcat gatatactcag 240
aatcggaatt tctaactgaa gctgaaatca tttgngatgt tgtatgcctg gtatataatg 300
tcagcaatcc caaatccttt gaatactgtg ccaggatttt taagcaacac tttatggaca 360
gcagaatacc ttgcttaatc gtagctgcaa agtcagacct gcatgaagtt aaacaagaat 420
acagtatttc acctactgat ttctgcagga aacacaaaat gctccacca caagccttca 480
cttgcaatac tgctgatgcc cccagtnagg atatctttgt taaattgaca acaatggacc 540
tg 542

```

<210> 711

<211> 394
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 184, 299
 <223> n = A,T,C or G

<400> 711
 caaacccact ccaccttact accagacaac cttagccaaa ccatttaccc aaataaagta 60
 taggcgatag aaattgaaac ctggcgcaat agatatagta ccgcaaggga aagatgaaaa 120
 attataacca agcataatat agcaaggact aacccttata ccttctgcat aatgaattaa 180
 ctanaaataa ctttgcaagg agagccaaag ctaagacccc cgaaaccaga cgagctacct 240
 aagaacagct aaaagagcac acccgtctat gtagcaaaat agtgggaaga tttataggna 300
 gaggcgacaa acctaccgag cctgggtgata gctgggtgtc caagatagaa tcttagttca 360
 acttttaatt tgcccacaga accctctaaa tccc 394

<210> 712
 <211> 552
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 133, 329, 345, 421, 518
 <223> n = A,T,C or G

<400> 712
 gaggtctgta naatgccagg ctcaaatttg tctttataat ttaataaccag aaatctttcc 60
 cttgtgatgt ttctttcttt ctggattgcc tctatagcag gggatagcgg gggaggataa 120
 ggcacatctt tgntgtactg agaaatttga ccacgcagga tgatgtggct gttctcattc 180
 atctgcacag agaaaaataa tgataaaata tccctttcct atgtttactg attttatggc 240
 tgccataatg gaagcctcct tgactattta atcctttctg tcaactaggt tgcatttttt 300
 ttttaattta cctgttagag gtatttaana attttaacta gctanaaata attacattcc 360
 aaaggaacac caaggcaaataaatgggttg taatcagcaa aagaattaca ttagttgttg 420
 ntgctactta ttagggggag aactgttttt ttttaaatat aaacaattta ataattctca 480
 ctgcaaataa ttttagatgc agcaaaggac tatgtagncg ttaataacctc atgttgatat 540
 tttcataata tt 552

<210> 713
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 133, 148, 188, 209, 246, 248, 263, 306, 316, 339, 371, 430, 469
 <223> n = A,T,C or G

<400> 713
 ccaaaaactg gaagcagctc actaaacaaa cagtggcata cccatagaac tgcatacttc 60
 tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120

```

atgccacatg aanaaaccca aagggganaa acataaaaac tttatatgtc agtcatataa 180
aattctanaa aatgcaaact aatccatcnt aaaggaaagt aaatcaacag ttgtctggag 240
gaccananag agcaggagga ganagattat taaaggggtt aaagtaaatt tgggagtgcc 300
cttccttttt taaatnctat gaaaatgaaa gtaaaggcnc atgcatgttg taaactaata 360
gtaacaaaca naatgggttg gagtggggtg ttgtctgggg acatcattac aaaatgtaag 420
ccagtttatn taaattttga aaagaccgtg gactctgatc tgactgatna atgttggaag 480
agataagtgt gctgcaaagt ggggaattaa taaaacag 518

```

```

<210> 714
<211> 281
<212> DNA
<213> Homo sapiens

```

```

<400> 714
ccaattgatt tgatggtaag ggaggggatcg ttgacctcgt ctgttatgta aaggatgcgt 60
agggatggga gggcgatgag gactaggatg atggcgggca ggatagttca gacggtttct 120
atttcctgag cgtctgagat gttagtatta gttagttttg ttgtgagtgt taggaaaagg 180
gcatacagga ctaggaagca gataaggaaa atgactatga gggcgtgatc atgaaagggtg 240
ataagctctt ctatgatagg ggaagtagcg tcttgtagac c 281

```

```

<210> 715
<211> 443
<212> DNA
<213> Homo sapiens

```

```

<400> 715
cttgaaatca gcaacacact tacaaatgag aaaatgaaaa tagaagagta tataaagaaa 60
gggaaagagg attatgaaga gagtcattcag agagctgttg ctgcagaggt atccgtactt 120
gaaaactgga aggagagtga agtgtataag ctacagatca tggagtcaca agcagaagcc 180
tttctgaaga agctggggct gattagccgt gatcctgcag catatcccga catggagtct 240
gatatacggt catgggaatt gtttctttct aatgtttaca aagaaattga gaaagcaaag 300
tctcagtttg aagaacaaat taaggcaatt aaaaatgggt cccggctcag tgaactttct 360
aaagtgcaga tttctgagct ttcatttctt gcctgtaaca cggttcatcc cgagttactc 420
cctgagtctt caggccacga tgg 443

```

```

<210> 716
<211> 639
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 6, 516, 532, 553, 602, 617, 620
<223> n = A,T,C or G

```

```

<400> 716
ccaaanaaaa tgaagtacag agtctgcata gtaagcttac agataccttg gtatcaaaaac 60
aacagttgga gcaaagacta atgcagttta tggaatcaga gcagaaaagg gtgaacaaag 120
aagagtctct acaaattgcag gttcaggata ttttgaggca gaatgaggct ttgaaagctc 180
aaattcagca gttccattcc cagatagcag cccagacctc cgcttcagtt ctagcagaag 240
aattacataa agtgattgca gaaaaggata agcagataaa acagactgaa gattcttttag 300
caagtgaacg tgatcgttta acaagtaaag aagaggaact taaggatata cagaatatga 360
atttcttatt aaaagctgaa gtgcagaaat tacaggccct ggcaaatgag caggctgctg 420
ctgcacatga attggagaag atgcaacaaa gtgttttatgt taaagatgat aaaataagat 480

```

```

tgctggaaga gcaactacaa catgaaattt caaacnaaat ggaagaattt angattctaa 540
atgaccaaaa canagcatta aaatcagaag ttcagaagct gcagactctt gtttctgcac 600
angcctaata aggatgntgn ggaacaaatg gaaaaattg 639

```

```

<210> 717
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 2, 102, 148, 157, 187, 290
<223> n = A,T,C or G

```

```

<400> 717
nntgaggcta ctgctgtttt attacaacat tacctcttgt ttttataaag tgtaccaaga 60
tttaaattga taactttatt ttacttgaaa aaaaaaagtt tnttttatca ccagtgttac 120
agttgtcttc tgtttctttt tgttttgntt tatttgnttt cctttttagc caaagagtga 180
acagaanatt ttcttatttt ggtggctatt cattttactt ttaaaagtga ttggtggatt 240
ttagactaat tatgggggaa ttgcccacca aaataaaaaa tatgtaaagn gtagtgatta 300
cagagtgggt aaaatgtggg ttagtactta tttattccat taattgatta tttgactgtt 360
tataaagaaa gttgctttat ttcttttaac atcttcaaaa gatgatcctt tcttgtcaca 420
ttatagccaa aagaagcaga gaacttcact gtctgcattt ggttcctggt tgg 473

```

```

<210> 718
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<400> 718
ggtaaagtct agtataatat ttaccatctc acttctagga atactagtat atcgctcaca 60
cctcatatcc tccctactat gcctagaagg aataatacta tcaactgttca ttatagctac 120
tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
ctttgccgcc tgcgaagcag cggtagg 207

```

```

<210> 719
<211> 255
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 214
<223> n = A,T,C or G

```

```

<400> 719
cctatattac ggatcatttc tctactcaga aacctgaaac atcggcatta tcctcctgct 60
tgcaactata gcaacagcct tcataggcta tgtcctcccg tgaggccaaa tatcattctg 120
agggggccaca gtaattacaa acttactatc cgccatccca tacattggga cagacctagt 180
tcaatgaatc tgaggaggct actcagtaga cagncccacc ctcacacgat tctttacctt 240
tcacttcate ttgcc 255

```

```

<210> 720
<211> 455

```

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 154, 346, 349, 366, 444
 <223> n = A,T,C or G

<400> 720
 ccaatgtcga aacctacaag atttccttaa aatctctaata agaggcatta cttgctttca 60
 attgacaaat gatgccctct gactagtaga ttctatgat ccttttttgt cattttatga 120
 atatcattga ttttataatt ggtgctatct gaanaaaaaa atgtacattt attcatagat 180
 agataagtat caggtctgac ccagtgga aacaaagcca aacaaaactg aaccacaaaa 240
 aaaaaggctg gtgttcacca aaaccaaact tgttcattta gataatttga aaaagctcca 300
 tagaaaaggc gtgcagtact aagggaacaa tccatgtgat taatgnttnc attatgttca 360
 tgtaanaagc cccttatttt tagccataat ttgcatatc gaaaatccaa taatcagaaa 420
 agtaattttg ccacattatt tatnaaaaat gttcc 455

<210> 721
 <211> 530
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 134, 390
 <223> n = A,T,C or G

<400> 721
 ccagtgcctg ctgccgtggt ttagtgattg ggtgttagaa ataaaaactc aggtctatct 60
 cttaccagtc agtaacaatt ttagagaaat gtacttggtata tataatatat ggacttcagg 120
 aactttattg gggngggggg ttaattttgc cttaccctgt tcactttcag atgattaggc 180
 ttttgcactt tagaatgaga aacttgtgac gttagtgtgt tcttactagc ttttaatttgt 240
 atgtagcaat gaattgtgaa tcttagtgca gtgggttttt ttaaaaaact caaaaagctg 300
 ggaattaagt ggtttcagta ataattgctat accgaggtgc ttgcattgta tttcataatt 360
 ttgttacaaa ccaaaattat ttttaattgan aacgggtctt ggttcagagg tgtgatgcca 420
 gaatgtatct tcgtactgtt aggcccttgg aacagatacc ggtgctttct tgaaagatga 480
 aagaaatgca atgggtgctc ttcattgcaag gttgcaaacc taccaagaat 530

<210> 722
 <211> 242
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29, 35, 55, 192
 <223> n = A,T,C or G

<400> 722
 ccaaggggtca tgatggcagg agtaatcana ggtgntcttg tgttgatgata agggngggaga 60
 ggtaaaggga gccacttatt agtaatgttg atagtagaat gatggctagg gtgacttcat 120
 atgagattgt ttgggctact gctcgcagtg cgccgatcag ggcgtagttt gagtttgatg 180
 ctcatcctga tnagaggatt gagtaaaccg ctaggctaga ggtggctaga ataaataggga 240

gg

242

<210> 723
 <211> 472
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 191, 266, 460
 <223> n = A,T,C or G

<400> 723
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gccgttcctc ttggactaa cagttaaatt tacaagggga tttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
 ttgtcgcctc nacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggctct ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agtccttgct atattatgct 360
 tggttataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
 ctatcgccta tactttattt gggtaaattg tttggctaan gttgtctggt ag 472

<210> 724
 <211> 292
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 26, 73, 177, 215, 256, 274, 276
 <223> n = A,T,C or G

<400> 724
 nccaccactg cagccctaca tacagntgaa aaaaaattcc attctgttaa catttgtttt 60
 ataagttttc acncaatata caaaaaaccc ctctgcactt cttgtaaaga acaaaaaaga 120
 tacacaacag ttaagcgtaa agatcacagg caatagcatt caaacatgga tgtgggnaga 180
 gaaaggagta cctggcatga gtacctgctt agttngactg aatccttgat ttttaatttg 240
 gcttttcatg ggccgntcac aacaccaacg ctgngngagg tatggtagtc ag 292

<210> 725
 <211> 122
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35, 61, 86, 88, 91, 114
 <223> n = A,T,C or G

<400> 725
 atagaaaggg catacccaaa atgttactga aaatntaata caaattccaa gattcaccaa 60
 ngaagtaaca aaaacctggc ctgcangngg ncccctatcc cgtgggtcca tggntgatgt 120
 gg 122

<210> 726
 <211> 477
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 266
 <223> n = A,T,C or G

<400> 726
 ctgaaccctc gtggagccat tcatacaggt ccctaattaa ggaacaagtg attatgctac 60
 ctttgcacgg ttaggggtacc gcggccgtta aacatgtgtc actgggcagg cgggtgcctct 120
 aatactgggtg atgctagagg tgatgttttt ggtaaacagg cggggtaaga tttgccgagt 180
 tccttttact ttttttaacc tttccttatg agcatgcctg tggtgggttg acagtgaggg 240
 taataatgac ttgttggtga ttgtanatat tgggctgtta attgtcagtt cagtgtttta 300
 atctgacgca ggcttatgcg gaggagaatg ttttcatgtt acttatacta acattagttc 360
 ttctataggg tgatagattg gtccaattgg gtgtgaggag ttcagttata tgtttgggat 420
 tttttaggta gtgggtgttg agcttgaacg ctttcttaat tggcggctgc ttttagg 477

<210> 727
 <211> 416
 <212> DNA
 <213> Homo sapiens

<400> 727
 cctgtctttg aatggatgaa atagggttaat aaaaaacatc actgttttaa aactagaaca 60
 ctgaaaaatt ctaggaaagc ttattttccc ttatatTTTT atggtacttt caacacttaa 120
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240
 caacggctgc catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata gtctgg 416

<210> 728
 <211> 416
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 411
 <223> n = A,T,C or G

<400> 728
 cctgtctttg aatggatgaa atagggttaat aaaaaacatc actgttttaa aactagaaca 60
 ctgaaaaatt ctaggaaagc ttattttccc ttatatTTTT atggtacttt caacacttaa 120
 taacactatt tcaattaagt tttctcctag agtttatagt atatcagtac attcttttct 180
 gtggatgcaa taatatagaa tcttattcca aatcttactg gcaggttctc ttaaattctt 240
 caacggctgc catagtgatt aacccaaaatt agttatgatt tctgcctatc tgtgtgagaa 300
 cttacagggg aaattgttct aaacctgagg aacatgaagt aactgtactg cacactccaa 360
 atgatgacag tcattttata tcaccttcaa ttacccaaca gcttttaata ntctgg 416

<210> 729

<211> 564
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 399, 439, 463
 <223> n = A,T,C or G

<400> 729
 ctgtgagtag aggagtcttc ccgagagtag cagttggtga tccaaatgat tgaagccttc 60
 aggtaaggga ataactgctg caggaattct ttcttgaaga atttaagctg tttggtaaga 120
 attctgtaac tacatacctt tgaaacacta ttcacattca aataaacgct tgttttctag 180
 ccaggcacag gctcaattag tttttcaaac tctagccaag gcagtatttc atttgggaaa 240
 tcatgcaaca gaactgctca attcttaact tctcctgctg ttaacattta cacttagact 300
 gccagcaaca gttaacttaa attttggtct caaggggaaca aaaaaaatt gcattcagaa 360
 tttaatatag tatttttaaaa ctaatttttag cctgtaagnc attatgagca atagtaactt 420
 ttatacctcc tcatcttgnc tgataatata ttctatatgc tgncaatctg attatatagt 480
 ctatatgcta gaagttgctg attttcattc tgccaccaa aaaaactgtc cttttttttt 540
 tatgggggaa aaagggaatt taaa 564

<210> 730
 <211> 310
 <212> DNA
 <213> Homo sapiens

<400> 730
 ccatttttat ttcttcttca gagaagtgtt tatttaggtc tgttgcccat tttacaatta 60
 ggccatatgt ttcttctgctg ttgagttgta tgtgtgtttg tataaatttt gcatattaac 120
 cccttatcac acgtatgttt tttaaaataa attttgctta ttaatctttt atcagatgta 180
 tggtttccaa atatattctt ccgatccatg gattctcttt ttgtttatga ttgtttcttt 240
 gctcttcgga agctttttgt tttgttttgt tatttgtttt actttgatat agtcccattt 300
 attgtttttg 310

<210> 731
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 260, 276, 334, 388, 392, 407
 <223> n = A,T,C or G

<400> 731
 ngacaacctt agccaaacca tttacccaaa taaagtatag gcgatagaaa ttgaaacctg 60
 gcgcaataga tatagtaccg caagggaaag atgaaaaatt ataaccaagc ataataaagc 120
 aaggactaac ccctatacct tctgcataat gaattaacta gaaataactt tgcaaggaga 180
 gccaaagcta agacccccga aaccagacga gctacctaag aacagctaaa agagcacacc 240
 cgtctatgta gcaaaatagn gggaagattt ataggnagag gcgacaaacc taccgagcct 300
 ggtgatagct ggttggtccaa gatagaatct tagntcaact ttaaatttgc ccacagaacc 360
 ctctaaatcc ccttgtaaat ttaactgnta gnccaaagag gaacagntct ttggacacta 420
 ggaaaaaacc ttgtagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 732
 <211> 492
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 266, 343, 364, 483
 <223> n = A,T,C or G

<400> 732
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactaa cagctaaatt tacaagggga ttttagagggt tctgtgggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
 ttgtgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggnttcg ggggtcttag ctttggtctc ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tataggggtt agnccttgct atattatgct 360
 tggntataat ttttcatctt tcccttgccg tactatatct attgcgccag gtttcaattt 420
 ctatgccta tactttattt gggtaaattg tttggctaag gttgtctggt agtgaggcgg 480
 agngggtttg gg 492

<210> 733
 <211> 562
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 169, 400, 430, 460, 497, 513, 523, 555
 <223> n = A,T,C or G

<400> 733
 ntgaaatggc aatagcattc actgtcgtat tttgcagtgc tcaggaagtg ggacgttaac 60
 tttgaagggtg cttgttttga ttagctctgc taggtttacc tctacaacgt agatttcagc 120
 agctatgctg actgacacta cattctagtt cttaagattt tttttccana tcccccttc 180
 cccagctaga catacgtagc atactttcat cttattcagt ctttctgtaa cctgctgctg 240
 ctttttagtcc tcctcacctc agatcggaat caatggagtg ggcccagagg atacatttta 300
 attccagtaa tggtaggtag atttgtcctg ctttctaaaa catctcctca tttcatattt 360
 ccactccata ttgattccat aagggaataa taatgggtgn ttcctccttt agggaggcaa 420
 tgcaaagagn gtggacatct tctaattctg aggaacagtn gttgatttcc cttgaaggag 480
 cttacatatt gactgtnttt cacaataacc tgnttgcccc agntcaatcc ctcattttta 540
 tacttaatgt tggtnctggg ct 562

<210> 734
 <211> 265
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 734

```

nggtccagaa caagagaaat aactgcagaa aacacatatg gttggaaacc atgcgcttgt 60
gactttttct gtagcctatg ggagtggaca gagtgggtaa cccaagatgt ttttaagact 120
gactggacta agaatggcgt acttatagcc aactacttcc cccctaagt gactgaaggg 180
attcataatg atcacaatta gcattacggt taagtatttt agggttgacg tctaagctca 240
cacttgaaag gtatttatct aatgg                                     265

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<210> 735
<211> 216
<212> DNA
<213> Homo sapiens

```

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<400> 735
atttaatacg tgctcactgc tcggcacgcg ctgaagctac agttaacaat cagtgaagcac 60
atattaaatg ataaaataat gctgatggta aacattcata acagcagagt aagatttttg 120
cagttttgtg tctcggtaac ataactgtaa ccttagatga acacctatcc cttcatgatc 180
tgactttaga ggcaaggagt ttgtaacatc taatgg                                     216

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<210> 736
<211> 285
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 13, 177
<223> n = A,T,C or G

```

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<400> 736
ctgaaaggca acntggagac tagttagtct agtcccctca tattataaat tggatatgctg 60
aggccaggca gtaaattgct atggagctct ccaatttaag gccagtttga ctccaagggt 120
agggcttcta gtaaaatttt gtgattaaat tggaaactct aatttatatt tctatgngtt 180
tttggtacct aatcctcata agcaagccat atttcaaggc tgatcaatga aaacaccaaa 240
taccaaagct tcctttccct tccaaattta ctgacccttt gtcag                                     285

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<210> 737
<211> 509
<212> DNA
<213> Homo sapiens

```

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<220>
<221> misc_feature
<222> 4, 13, 303, 347, 419, 446, 473, 483, 489, 503
<223> n = A,T,C or G

```

```

<400> 737
agangaagaa gangaagatt aagggaaaag tacatcggtc aagaagagct caacaaaaca 60
aagcccatct ggaccagaaa tcccgacgat attactaatg aggagtacgg agaattctat 120
aagagcttga ccaatgactg ggaagatcac ttggcagtga agcatttttc agttgaagga 180
cagttggaat tcagagccct tctatttgtc ccacgacgtg ctctttttga tctgtttgaa 240
aacagaaaga aaaagaacaa catcaaattg tatgtacgca gagttttcat catggataac 300
tgngaggagc taatccctga atatctgaac ttcattagag gggtaggnaga ctcgagggat 360
ctccctctaa acatatcccg tgagatgttg caacaaagca aaattttgaa agttatcang 420
aagaatttgg gtcaaaaaat gcttanaact ctttactgaa ctggcggaag atnaagagaa 480
ctncaagana ttctatgagc agntctctt                                     509

```

<210> 738
 <211> 97
 <212> DNA
 <213> Homo sapiens

<400> 738
 cagtgaattg aatacgactc ctatagggcg aattggggccc tctagatgca tgctcgagcg 60
 gccgccagtg tgatggatat ctgcagaatt cgccctt 97

<210> 739
 <211> 209
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

<400> 739
 ccgncagtgat gatggatata tgcagaattc gcccttagcg gcccgcccg ggcagggtcct 60
 tatatatagt agcttagttt gaaaaaatgt gaaggacttt cgtaacggaa gtaattcaag 120
 atcaagagta attaccaact taatgttttt gcattggact ttgagttaag attatTTTTT 180
 aaatcctgag gactagcatt aattgacgg 209

<210> 740
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 740
 ccaagctaata ggggtgacact gtgaatgcaa ctctaatagca gcctggcgta aatgggtccta 60
 tggggcactaa ctttcaagtt aacacaaaca gaggagggtg tgtgtgggaa tctgggtgcag 120
 caaactccca gagtacatca tggggaagtg gaaatggcgc aaat 164

<210> 741
 <211> 514
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 82, 438, 485, 497
 <223> n = A,T,C or G

<400> 741
 ccagtcagaa ttgagatgtg ctgtgagtgc aaaatacact caaatctaag acttagtatg 60
 gaagaaaaag aagataaggt gnttcattaa taatctttta tattgattac atgttgaaat 120
 gatattttta atatactggg ttacataaac tggtatttaag attaatTTTt cttgtttctt 180
 ttttaatatg gctactagaa aattaaaaat tatgtttgtg ttcacattat atttctgttg 240
 aacaatgtgg acatagataa tctacagtca ttacattagc cttagaattt agcatcatac 300
 ttttaagcac tctgggggtac taacttgaac tcccagaaac ccataagcac actctgcata 360
 taaattattg caaaattcat tcttatctct ctgaaagata tgcatttttaa gggtaaaaag 420

aattcacaaa atattgantic cttaacaaat gtcaattagt atatggagag agctaaagga 480
 cttcntgttag actggtncat tggggaaaaa caga 514

<210> 742
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 28, 123, 144, 347, 367
 <223> n = A,T,C or G

<400> 742
 gcaggtccta tgcatagtta ataagggnta taatctactc aacatggaaa atgggagcct 60
 atttgcaaac acacgagtaa ttaaagtacc aattctctct tagtttcttt ttttatagtt 120
 ggnttatattt gcaattataa atgntaaaca tccctagaga tgaaagttaa aatggctgat 180
 cacagatcag tagcaaaaata caaattgaca attcaaaaatt ataaataaaa ctctgttgag 240
 gatgtttaac tttgagcctc caaatttaag agctaagctt ggaagaaaca aatttatagg 300
 ttatatattcc ctcttaaatt aaaaaacaaa cttcctctgg cagtagnttg tgaattcctt 360
 tcattgnaat gataccatga ttacaggatc aaaaatgctt aacttacttg ccattctgct 420
 cacatcatca cagttgttt 439

<210> 743
 <211> 275
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3
 <223> n = A,T,C or G

<400> 743
 cangacgcta ctccccctat catagaagag cttatcacct ttcatgatca cgccctcata 60
 gtcattttcc ttatctgctc cctagtcctg tatgcccttt tcctaacact cacaacaaaa 120
 ctaactaata ctaacatctc agacgctcag gaaatagaaa ccgtctgaac tatcctgccc 180
 gccatcatcc tagtcctcat cgccctccca tccctacgca tcctttacat aacagacgag 240
 gtcaacgatc cctcccttac catcaaatca attgg 275

<210> 744
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5
 <223> n = A,T,C or G

<400> 744
 ctgtncctttt aaaaaatctg gatgtttttt atttagtgat tgttcgacaa ttagctgctt 60
 caaaacataa tgtgcattgc ttatgaatgc cttcatatac taatacagat actctgataa 120
 tattacactc taataaggat aatgctgaat tttgaaagga cacaaaacat ctaatgccaa 180

tatatacatg attagccaac atctttgcta tcaagaccac tcgttttttaa ataaagatgc 240
aagtgtcagt tgtagattat tgggatgaag ctaaattcccc agaatgcagc agcag 295

<210> 745
<211> 477
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 434
<223> n = A,T,C or G

<400> 745
cgcgttactg tacatattgc tagcaggaga caactggaaa tactaaacaa atactggaat 60
tcacattaca gacagacgaa accaacaatgg atgccacaca taacttcctt tgtagtttca 120
cagagagcct atttgtgggt gctcagggtg gggtcatacat tgcttgcaga aatggcctga 180
tcatagctct atgaaacaat gaattcggaa tgaaatctta ccatgacacc tctctgtagg 240
aaagaaatgt tgcttcacgt gtgctaagtt gagataataa tatttcacat atttatatac 300
agagaatcac tctcaaattt aacccaagat aagcaatagg atttgggggt gacttgtaca 360
catttctaac aacacttttc ttttttctag aggtcactct caaacactga tatatcacta 420
tagtttgagt gtanggattc agtaatcaaa ggttggttatt gcaaaagagc caggcag 477

<210> 746
<211> 524
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 393
<223> n = A,T,C or G

<400> 746
ctgtgaaatt gggttgggag agccaaaata ctttacaact tcagaccgga gaaaaggcca 60
gaggtgtgaa gttagactct atgatgaaac agagtcgtct tttgcatga catgttggga 120
taatgaatcc attctacttg cacagagctg gatgccacga gaaacagtaa tatttgctc 180
agatgtaaga ataaattttg acaaatttcg gaactgcatg acagcaactg taatctcaaa 240
aaccattatt acaactaatc cagatatacc agaagctaac attctgctga attttatac 300
agaaaataaa gaaacaaatg ttctggatga tgaaattgac agttatttca aagaatccat 360
aaatttaagt acaatagttg atgtctacac agntgaacaa ttaaaggga aagctttgaa 420
gaatgaagga aaagctgatc cttcctatgg catcctttat gcctacattt ccacactcaa 480
cattgatgat gaaactcaaa agtagttcga aatagatgtt ccag 524

<210> 747
<211> 456
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 411
<223> n = A,T,C or G

<400> 747

```

cctcagttct tgattgtggt tgacggggcg tcaccatgaa ggagcccatt tagtataaag 60
cttccaacct tttctcttaa tcgtttcttt aatcttttaa accatcttca agtgcatagg 120
ggagtttccg atgccagagg atgaaagcaa gtgctttctc caccctctcc tcccagagtg 180
aaaacaaatc cttttgctga tacttgtttc aaaagcatcc attgtaaagc ttctcagtga 240
cacaaaatac tgagaggtaa ctttttatca atcaaaccac ataccccaat ttaacacctt 300
tcagtgtctc gaattcaact gacagactaa aggggtgttc ctgtaacagt ctgaaatatt 360
aagtgttttt tttgttttgt ttttaaattc ttttcagaa aacttcctct nggggtagga 420
aagtacacat gaagcagcaa agtaacgaag aaaaac 456

```

<210> 748

<211> 474

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 28, 58, 207, 210, 217, 423

<223> n = A,T,C or G

<400> 748

```

ccanaccagg gaaccaaagt cagacagnga agttctctgc ttcttttggc tataatgnga 60
caagaaaggg atcatctttt gaagatgttt aaagaaataa agcaactttc tttataaaca 120
gtcaaataat caattaatgg aataaataag tactaaccca cattttaacc actctgtaat 180
cactacactt tacatatatt ttatttnggn ggcaaaantcc cccataatta gtctaaaatc 240
caccaatcac ttttaaaagt aaaatgaata gccacaaaaa taagaaaatc ttctgttcac 300
tctttggcta aaaaggaaaa caaataaaac aaaacaaaaa gaaacagaag acaactgtaa 360
cactgggtgat aaaagaaact ttttttttac aagtaaaata aagttatcaa tttaaatctt 420
ggncacttta taaaaacaag aggtaatgtt gtaataaaac agcagtagcc tcag 474

```

<210> 749

<211> 355

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 9, 12, 22, 242, 311, 332, 348

<223> n = A,T,C or G

<400> 749

```

cctgggttna gnggctgact gnaacctcca cttectgttc tcaggcaatc ctctgcctc 60
agcctcctta gtagctggga ctacaggagt gtgcaaccat gcccaactaa tttttgtatt 120
tttaatagag acagggtttc accatgttga tcaggtttgt ctccaactcc tgacctcagg 180
tgatccacct gtcccagcct cccaaagtgc tgggattaca ggcatgagcc accacgcccg 240
gnccaggata aagtaaaaat ttgtaagcac acaaggccct ttgcaacctg gctcctgggt 300
actactttaa ncctcctgcc ctcccaaatg tnetcactgt ttttctanac atacc 355

```

<210> 750

<211> 493

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
 <222> 350, 364, 454
 <223> n = A,T,C or G

<400> 750
 ccatgctggt ctogaactcc tgaactcagg tgatccaccc gcctcagtcct cccaatagat 60
 tacatatatt attaatgaat tgcttccttt aacaccctat tcattgaatt ttccagtaaa 120
 ccacaattac taattactcc tgaaatcaga aaagagggtta aaaagatttt ataacagtat 180
 cctatgaaat ctactacttt caagtaatag tagttgaatt accaaaaccc gtcactcaag 240
 ccaatgacta caattaagat atgagtaaca ttccctagat aaataaagtc aattaattat 300
 atttgcattct gggaaataga gaaagtacat ataagccatg attttgaagn caaaagagag 360
 agantatttg ccaaggaggg gtgagttata gtatgtaatt ataacataca gaagcttttt 420
 gtatgctggt aactaatttt aatttcctac attnttatgg agatttctgc tattcttgtc 480
 ctattttcca cct 493

<210> 751
 <211> 364
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 34, 211, 360, 362
 <223> n = A,T,C or G

<400> 751
 cgaggctctgg naaggctcacc aagtctgccc aganagctca gaaggctaaa tgaatattat 60
 ccctaatacc tgccacccca ctcttaataca gtgggtggaag aacggctctca gaactgtttg 120
 tttcaattgg ccattttaagt ttagtagtaa aagactgggtt aatgataaca atgcatcgta 180
 aaaccttcag aaggaaagga gaatgttttg nggaccactt tggttttctt ttttgcgtgt 240
 ggcagtttta agttattagt ttttaaaatc agtacttttt aatggaaaca acttgaccaa 300
 aaatttgta cagaattttg agaccatta aaaaagttaa atgagataaa aaaaaaaaaa 360
 cntg 364

<210> 752
 <211> 498
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17, 368, 395, 400, 425
 <223> n = A,T,C or G

<400> 752
 ctggattatg gggtggnatt ggtcatatgt tagactccat acaggcatag ctatgatgca 60
 gtgaatccct tagaagttac aattctcaaa ttacatactt cctcagatgt aacattagaa 120
 ctcaatatatt ctaacaataa cataccagaa aaggctggac tggcactcat ctgctgacta 180
 acttgtagcc tcagtaatat gacatacttg cctttaacaa attatctcaa attaactaac 240
 agaccttcag aaaatggaga ttcttttttg tggggacata atcaaattta agtctgagaa 300
 atatgcttaa cagttggaac tcaaattaaa tgtactgatt ttaaagttaa gacattaaca 360
 agtgatanat tagcctcaaa aaaagacaat ttggnaaggn ttaggtcttt taatttggtg 420
 cttgntcaca acttgactgg tgcttctttc cttgctgctt cacatcaagc atggggccaa 480
 ttctattttc agtaaatg 498

<210> 753
 <211> 467
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1, 15, 77, 314, 317, 335, 419
 <223> n = A,T,C or G

<400> 753
 nacaacctta gccanaacca tttacccaaa taaagggata ggcgatagaa attgaaacct 60
 ggcgcaatag atatagnacc gcaagggaaa gatgaaaaat tataaccaag cataatatag 120
 caaggactaa cccctatacc ttctgcataa tgaattaact agaaataact ttgcaaggag 180
 agccaaagct aagacccccg aaaccagacg agctatctaa gaacagctaa aagagcacac 240
 ccgtctatgt agcaaaaatag tgggaagatt tataggtaga ggcgacaaac ctaccgagcc 300
 tggatgatagc tggntgncca agatagaatc ttagntcaac tttaaatttg cccacagAAC 360
 cctctaaatc cccttgtaaa tttaactgtt agtccaaaga ggaacagctc ttggacacna 420
 ggaaaaaacc ttgcagagag agtaaaaaat ttaacaccca tagtagg 467

<210> 754
 <211> 196
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 17
 <223> n = A,T,C or G

<400> 754
 gtcattgttca agtggtntaa tctgacgcag gcttatgcgg aggagaatgt tttcatgtta 60
 cttataactaa cattagttct tctatagggt gatagattgg tccaattggg tgtgaggagt 120
 tcagttatat gtttgggatt ttttaggcag tgggtgttga gcttgaacgc tttcttaatt 180
 ggtggctgct tttagg 196

<210> 755
 <211> 381
 <212> DNA
 <213> Homo sapiens

<400> 755
 ctggaaagga ttctgtacat ataagacatc aaatattgag ggatactgga actttttaaat 60
 taatgggcaa agaaagtcaa caaaggaagt tcatatgaaa tcaaactagt aatatgatta 120
 caaaaaaaaaa gtttaaaatt tttcttggcc ccagtcttat catttctgag ccaaatacaa 180
 ttctatcgaa atcacctgaa actgaaatca ccatttctagg ctggttttcc cataaagatg 240
 gactgctcca aaaagaggaa tcaagaaaga atttggtcga cagtgaatta ttcactttgt 300
 cttagttaac taaaaataaa atctgactgt taactacaga aatcatttca aattctgttg 360
 tgataataaa gtaatgaccg c 381

<210> 756
 <211> 341
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 3

<223> n = A,T,C or G

<400> 756

```

ggntataaac ctattattta ttgcagaact aataaaaaat ccaaagcctt gtatttgtac 60
atctttatta tctctaaagc actttcctca acctaatttc agtttttaca attggtactc 120
aagaaaatag agacagaaat catttgattt tgcccagaaa ccatctgctt atatttataa 180
ggccacctaa tttgaaatca catatagacc aggcgcggtg gctcacgcct gtaattccaa 240
cactttggaa ggccaaggca ggtggatcac aaggtcaaga gattgagacc atcttggcca 300
acatggcgaa accccgtctc taccaaaaat acaaaaatca g 341

```

<210> 757

<211> 479

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 359, 425, 431

<223> n = A,T,C or G

<400> 757

```

cgcnttactg tacatattgc tagcagggag acaactggaa atactaaaca aatactggaa 60
ttcacattac agacagacga aaccaacatg gatgccacac ataacttcct ttgtagtctc 120
acagagagcc tatttgtggt tgctcaggtg gggtcataca ttgcttgagc aaatggcctg 180
atcatagctc tatgaaacaa tgaattcgga atgaaatcct accatgacac ctctctgtag 240
gaaagaaatg ttgcttcacg tgtgctaagt tgagataata atatttcaca tatttatata 300
cagagaatca ctctcaaatt taacccaaga taagcaatag gatttggggg tgacttgtnc 360
acatttctaa caacactttt cttttttcta gaggtcactc tcaaacactg atatatcact 420
atagnttgag ngtagggatt caagtaatca aaggttgtta ttgcaaaaaga gccaggcag 479

```

<210> 758

<211> 267

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 6

<223> n = A,T,C or G

<400> 758

```

ccatgnctag gtttatagat agttgggtgg gttggtgtaa atgagtgagg caggagtccg 60
aggaggttag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcaggttcgt 120
ccttttagtgt tgtgtatggc tatcatttgt tttgagggtta gtttgactag tcattgttgg 180
gtggtaatta gtcggttgtt gatgagatat ttggagggtg ggatcaatag aggggggaaat 240
agaatgatca gtactgcggc gggtagg 267

```

<210> 759

<211> 449

<212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 371
 <223> n = A,T,C or G

<400> 759
 cgaggtcttg aaatcagcaa cacacttaca aatgagaaaa tgaaaataga agagtatata 60
 aagaaagggg aagaggatta tgaagagagt catcagagag ctgtggctgc agaggtatcc 120
 gtacttgaaa actggaagga gagtgaagtg tataagctac agatcatgga gtcacaagca 180
 gaagcctttc tgaagaagct ggggctgatt agccgtgata ctgcagcata tcccagacatg 240
 gagtctgata tacgttcatg ggaattgttt ctttctaata ttacaaaaga aattgagaaa 300
 gcaaagtctc agtttgaaga acaaattaag gcaattaaaa atgggtcccg gctcagtgaa 360
 ctttctaag ngcagatttc tgagctttca tttcctgcct gtaacacggt tcatcccagag 420
 ttactccctg agtcttcagg ccacgatgg 449

<210> 760
 <211> 414
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 34, 136, 169, 173, 209, 227, 246, 269, 274, 291, 316,
 341, 414
 <223> n = A,T,C or G

<400> 760
 ccatnaactg gaagcagctc actaaacaaa cagnnggcata cccatagaac tgcatacttc 60
 tcagcagtat gaaagaatga gctacttata taagcatcat tgataaacct caaaaaaaaa 120
 atgccacatg aagaanccca aggggggagaa acataaaaaac tttatatgnc agncatataa 180
 aattctagaa aatgcaaact aatccatcnt aaaggaaagt aaatcancag ttgtctggag 240
 gaccanagag agcaggagga gagagattnt taangggggt aaagtaaatt ngggagtgcc 300
 cttccatttt taaatnctat gaaaatgaaa gttaaaggccc ntgcattgtt taaactaata 360
 gtaacaaaca gattggggtg gaggggggtg ttgtctgggg acatcattac aaan 414

<210> 761
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 761
 gagcctcact aaaataacag atttcagtat agccaagtcc atcagaaaga ctcaaattgga 60
 atgattttaca agatagaaca ctttaaacca ggtcagtcct atctttttgt agctgaaggc 120
 tatcagtcac aacacaattt cgcgtacacc tctgctcatt atggaattac acttaaaacg 180
 aatctcaaga gggtgaccat tgttgtttca gataccatcc ctaaggagag tggttaacag 240
 gaagattgcc agtggtactg atggaaagaa gtgtttgttt gttttttttc ttgtcaaaga 300
 cttacaccat agtttttaaat taaactgtca ggcattttct cagacagggt ttccttttca 360
 atgcagtaat gaagaactaa gataaaaatc atgacttttg actgccactc aacattatta 420
 catgcacc 428

<210> 762

<211> 574
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 47, 190, 449, 509, 510, 552
 <223> n = A,T,C or G

<400> 762
 caggtctgaa ctgataagta ttaagagacg tttgttgcta gttaagngtt ccagttgaga 60
 gttcgaagtg aaaacctggg ctctttacca gtgttgagtg agaagattta tttctctttc 120
 ctctgaattt accacatgta acatcacaga gacatgtaga gttccttttag gatttgcgat 180
 ttgaaccagn ccagtctgat tttcaggtga attctgtgaa gagcttgatg ggggaagtct 240
 gaagacagaa ggaattaggg aaaagggtga tacttacaga gtaaaggaaa taaatgaaaa 300
 gataatggta tttttggtag ccacagggaa atagcaggag gggactggag atcacacaca 360
 cgcacacgca cacacacaaa cacacacaca cgctaaaact caaactaaaa acctcccaaa 420
 ggagctgctt tgtttgcaga cttcaattng aagtagatac taagggcaag aatagaccag 480
 ttaaaattca cctgaaaatc tcttcccann cttcaaattgt gctaaaatat cactgtcagc 540
 ttagcatctc tncatgtatg tatatataga tgta 574

<210> 763
 <211> 465
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 41, 116, 411
 <223> n = A,T,C or G

<400> 763
 cctactatgg gtgtttaaatt tttttactct ctctacaagg ntttttccta gtgtccaaag 60
 agctgttcct ctttggacta acagttaaatt ttacaagggg atttagaggg ttctgngggc 120
 aaattttaaag ttgaactaag attctatctt ggacaaccag ctatcaccag gctcggtagg 180
 tttgtcgcct ctacctataa atcttccac tatttttgcta catagacggg tgtgctcttt 240
 tagctgttct taggtagctc gtctggtttc ggggggtctta gctttggctc tccttgcaaa 300
 gttattttcta gttaattcat tatgcagaag gtataggggt tagtccttgc tatattatgc 360
 ttggatatata tttttcatct ttcccttgcg gtactatata tattgcgcca ngtttcaatt 420
 tctatcgctc atactttatt tgggtaaatg gtttggctaa gggttg 465

<210> 764
 <211> 151
 <212> DNA
 <213> Homo sapiens

<400> 764
 ctgtcaatta atgctagtcc tcaggattta aaaaataatc ttaactcaaa gtccaatgca 60
 aaaacattaa gttggtaatt actcttgatc ttgaattact tccgttacga aagtccttca 120
 catttttcaa actaagctac tatattttaag g 151

<210> 765
 <211> 251
 <212> DNA

<213> Homo sapiens

<400> 765

```
gaagagctta tcacctttca tgatcacgcc ctcatagtca ttttccttat ctgcttccta 60
gtcctgtatg ccctttttcct aacactcaca acaaaactaa ctaataactaa catctcagac 120
gctcaggaaa tagtaaccgt ctgaactatc ctgcccgccca tcatcctagt cctcatcgcc 180
ctcccatccc tacgcatcct ttacataaca gacgagggtca acgatccctc ccttaccatc 240
aatcaattg g 251
```

<210> 766

<211> 375

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10

<223> n = A,T,C or G

<400> 766

```
cgagggtctgn cctcctgggtt cttcatccat tattaacaga agagcatact ggtttcggtc 60
cataaaatct ttgggaaggg acaactgtaa aggaagttca tagtcgtcaa tatgaaggat 120
tttaatttct ggctttccta tcttcttctt caggatagct tccttcagca tagaattggt 180
ttccaatata aaatatatttg ctgggttggtc cgtactatgt aggctgacca ctgggaccct 240
tggaccttca cagaataata agaaatgttg attcatggga ctaaaactgg catcaaaata 300
tgtacattgt tctttcatga aattacatga aatgcattgg cgattcaata atccttcagt 360
agaagcactg tacag 375
```

<210> 767

<211> 485

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 70, 160, 386, 408, 440, 484

<223> n = A,T,C or G

<400> 767

```
cgagggtctga accctcgtgg agccattcat acaggtcctt aattaaggaa caagtgatta 60
tgctaccttn gcacgggttag ggtaccgcgg cccgttaaag atgtgtcact gggcaggcgg 120
tgcctctaata actggtgatg ctagagggtga tgttttttgg aaacaggcgg ggtaagattt 180
gccgagttcc ttttactttt tttaaccttt ccttatgagc atgcctgtgt tgggttgaca 240
gtgagggtaa taatgacttg ttggtgattg tagatatttg gctgttaatt gtcagttcag 300
tgtttttaatc tgacgcaggc ttatgcggag gagaatgttt tcatgttact tatactaaca 360
ttagttcttc tatagggtga tagatnggtc caattgggtg tgaggagntc acttatatgt 420
ttgggatttt ttaggtaagn ggggtgttgag cttgaacgct ttcttaattg ggggctgctt 480
ttang 485
```

<210> 768

<211> 379

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 35
 <223> n = A,T,C or G

<400> 768
 ctgatattct attaaagata caaagaggag ctggnaccat ttctttctgaa actattacaa 60
 acaactgaaa aggtggaatt tctccctaatt tcatttttagg aggccagcat tatactgata 120
 ccaaaacctg gcagagggtac aataataaaa ggaaacttca agtcagtatc actgatgaac 180
 accaatgtga aaatcctcaa taaaataactg gcaaactgaa ttcagcagca catcaaaaag 240
 ctaatccacc acaatcaagt cagcttcata cctgcgatgc aagtctgggt caacatatgc 300
 aaatcaataa atacaattca tcagataaac agagctaaag acaaaattca catgattttc 360
 tcaatagatg cagaaaagg 379

<210> 769
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 282, 460, 490
 <223> n = A,T,C or G

<400> 769
 cgagggtccat atgatgatca gtctatatag ttttaaggcgc agatacacaa attttcaaaa 60
 atatgggtag aatatagtca atatgaatgg aatagacaat gctttgaaaa tcaactggagg 120
 gaggctttat tgtttgtgaa aacatgttgt catcactttt tgctttaagc ccttggtggt 180
 gaaataactc aaaccattct tccttatgct gaagatcgag aacccaagt atcacatcta 240
 ccatcccaact catcaatgtg attgggtcagt ctttgctgag gncctgcata gccagtttta 300
 aagttagagt tcttgcatat acatatgaaa aggcatgtta cttgtgcttt caaagagctt 360
 tttgcttggt gtaaaaagaa aactcaaatt acagtgtgat gtggaatata atgggtggtg 420
 tttcatcgag atgatgggaa agaattgata agataaagcn gaaagatgag cagaattttc 480
 agattgggtn tggaaagagc acttaagaaa gaggggtgg 518

<210> 770
 <211> 378
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 163, 283, 340
 <223> n = A,T,C or G

<400> 770
 tatgggtcct gagtgtggaa tataagataa caagacaatt cccttgcttt caagggaaat 60
 cacactttat aaaactttga attcttgaaa tgggtttcag aggttccaag gtcaaattca 120
 agaataagag ttaagaagaa aaagactatg agaaagggaag tgntgacccc atttgcat 180
 aaatggcagg aatagtctca atctactcat tggggaaaaa tgtatgttgc atatttttga 240
 gatattgcaa cttgctctct ctctttgcca cccaccctt tgncatgctc tgtttttggg 300
 ctgaattggc aagaaaaatg gctggagggc tgggaagaagn tggacccttc ttccttcttc 360
 cttcttcctt ctttctcc 378

<210> 771
 <211> 207
 <212> DNA
 <213> Homo sapiens

<400> 771
 cataaatatt atactagcat ttaccatctc acttctagga atactagtat atcgctcaca 60
 cctcatatcc tccctactat gcctagaagg aataatacta tcactgttca ttatagctac 120
 tctcataacc ctcaacaccc actccctctt agccaatatt gtgcctattg ccatactagt 180
 ctttgccgcc tgcgaagcag cggtagg 207

<210> 772
 <211> 384
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 115
 <223> n = A,T,C or G

<400> 772
 cctactatgg gtgttaaatt ttttactctc tctacaaggt tttttcctag tgtccaaaga 60
 gctgttcctc tttggactaa cagttaaatt tacaagggga tttagagggt tctgngggca 120
 aatttaaagt tgaactaaga ttctatcttg gacaaccagg taccaccagg ctcggtagg 180
 ttgtgcctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
 agctgttctt aggtagctcg tctggtttct ggggtcttag ctttggtctt ccttgcaaag 300
 ttatttctag ttaattcatt atgcagaagg tatagggggt agtccttgct atattatgct 360
 tggttataat ttttcatctt tccc 384

<210> 773
 <211> 182
 <212> DNA
 <213> Homo sapiens

<400> 773
 cccttttctt aacactcaca acaaaactaa ctaataactaa catctcagac gctcagggaa 60
 atagaaaccg tctgaactat cctgcccgcc atcatcctag tctcctcgc cctcccatcc 120
 ctacgcaccc ttacataac agacgaggtc aacgatecct cccttaccat caaatcaatt 180
 gg 182

<210> 774
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 774
 ccatggctag gtttatagat agttgggtgg ttgggtgtaa atgagtgagg caggagtccg 60
 aggaggtag ttgtggcaat aaaaatgatt aaggatacta gtataagaga tcagggttcgt 120
 ccttagtgt tgtgtatggc tatcatttct tttgagggtta gtttgattag tcattgttgg 180
 gtggttaatta g 191

<210> 775
 <211> 192

<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature
<222> 12, 45, 51, 62, 90, 114, 134, 163
<223> n = A,T,C or G

<400> 775

```
ccatggcctaa gntatataga tagctgggtg gctggagtaa atgantgagg nacgagtcg 60
angaggtag ttgaggcaat aaaaatgatn aaggatacta gtataagaga tcangttcgt 120
cctttacatg ttgngtatgg ctatcatttg ttttgaggct agnttgatta gtcattgttg 180
ggtggtaatt aa 192
```

<210> 776

<211> 144

<212> DNA

<213> Homo sapiens

<400> 776

```
ctgacccctt agaaccctgg ctctgccatt agctaggacc taagactctg cccacatttt 60
ggtctgttct ctcccattac acatagggtt gtctcagcat gcaagagttt ttcctttaaa 120
aaaaaaaaaa aaaaaaaaaa aaaa 144
```

<210> 777

<211> 483

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<222> 14, 339, 461
<223> n = A,T,C or G

<400> 777

```
cctactatgg gtgntaaatt ttttactctc tctacaagggt tttttcctag tgtccaaaga 60
gctgttcctc ttgggactaa cagttaagtt tacaagggga tttagagggt tctgtgggca 120
aatttaaagt tgaactaaga ttctatcttg gacaaccagc tatcaccagg ctcggtaggt 180
ttgtcgccctc tacctataaa tcttcccact attttgctac atagacgggt gtgctctttt 240
agctgttctt aggtagctcg tctgggtttcg ggggtcttag ctttggtctc ccttgcaaag 300
ttatttctag ttaattcatt atgcagaagg tataggggnt aagtccttgc tatattatgc 360
ttggatataa tttttcatct ttcccttgcg gtactatate tattgcgcca ggtttcaatt 420
tctgccgcct atactttatt tgggtaaatt gtttggtctaa ngttgctggt agaaggtgga 480
gtg 483
```

<210> 778

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature
<222> 295, 297, 370
<223> n = A,T,C or G

<400> 778
ctgcattttt attgcgatct gcagatgaac tgggaaaatc tcattttaca acagaactga 60
gacagacgac caccatattc actgaggtct aaatttgcag ttccactaa tgacattttg 120
atttcccaac agagatactt ctggtcttac tgcacagtct tttaagagaa atacttccat 180
tatgccacat tgtccttgat ccgtaagtga tgtgttaagg tgcttcaaag gaactctgac 240
ctctgaagta cttgagctac tttagtatgt ccagcctatt gctttttgtt ttagngngtc 300
accataaata tcaggggcat aaaaggctat ctattcttaa ttcaaggata aaacagaaga 360
agcttgtggn ataaaacaat agtcaagatc cag 393

<210> 779
<211> 277
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4
<223> n = A,T,C or G

<400> 779
cctnttgatt tgatgggtaa ggggagggat cggtgacctc gtctgttatg taaaggatgc 60
gtagggatgg gagggcgatg aggactagga tgatggcggg caggatagtt cagacggttt 120
ctatttcctg agcgtctgag atgttagtat tagttagttt tgttgtgagt gttaggaaaa 180
gggcatacag gactaggaag cagataagga aaatgactat gagggcgtga tcatgaaagg 240
tgataagctc ttctatgata ggggaagtag cgtcttg 277

<210> 780
<211> 328
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 aatcctgttt gatggtggtt aacggcgga tataacatga gctgtcttcg gtatcgctct 3780
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gcatttgcat ggtttggtga aaaccggaca tggcactcca gtcgccttcc cgttccgcta 3960
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agacagaact taatgggccc gctaacagcg cgatttgctg gtgacccaat gcgaccagat 4080
gctccacgcc cagtcgcgta ccgtcttcat gggagaaaaat aatactggtg atgggtgtct 4140
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<210> 786
<211> 108
<212> PRT
<213> Homo sapiens

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<400> 786
Arg Arg Ser Cys Glu Pro Ala Thr Arg Val Pro Glu Val Trp Ile Leu
 1          5          10          15
Ser Pro Leu Leu Arg His Gly Gly His Thr Gln Thr Gln Asn His Thr
          20          25          30
Ala Ser Pro Arg Ser Pro Val Met Glu Ser Pro Lys Lys Lys Asn Gln
          35          40          45
Gln Leu Lys Val Gly Ile Leu His Leu Gly Ser Arg Gln Lys Lys Ile
          50          55          60
Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met
65          70          75          80
Glu Gly Asp Leu Gln Glu Leu His Gln Ser Asn Thr Gly Asp Lys Ser
          85          90          95
Gly Phe Gly Phe Arg Arg Gln Gly Glu Asp Asn Thr
          100          105

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<210> 787
<211> 152

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<212> PRT
 <213> Homo sapiens

<400> 787

Arg	Pro	Lys	Glu	Glu	Val	Pro	Arg	Ser	Lys	Ala	Leu	Glu	Val	Thr	Lys
1				5					10					15	
Leu	Ala	Ile	Glu	Ala	Gly	Phe	Arg	His	Ile	Asp	Ser	Ala	His	Leu	Tyr
			20					25					30		
Asn	Asn	Glu	Glu	Gln	Val	Gly	Leu	Ala	Ile	Arg	Ser	Lys	Ile	Ala	Asp
		35					40					45			
Gly	Ser	Val	Lys	Arg	Glu	Asp	Ile	Phe	Tyr	Thr	Ser	Lys	Leu	Trp	Ser
	50					55					60				
Thr	Phe	His	Arg	Pro	Glu	Leu	Val	Arg	Pro	Ala	Leu	Glu	Asn	Ser	Leu
65					70					75					80
Lys	Lys	Ala	Gln	Leu	Asp	Tyr	Val	Asp	Leu	Tyr	Leu	Ile	His	Ser	Pro
			85					90						95	
Met	Ser	Leu	Lys	Pro	Gly	Glu	Glu	Leu	Ser	Pro	Thr	Asp	Glu	Asn	Gly
			100					105					110		
Lys	Val	Ile	Phe	Asp	Ile	Val	Asp	Leu	Cys	Thr	Thr	Trp	Glu	Ala	Met
		115					120					125			
Glu	Lys	Cys	Lys	Asp	Ala	Gly	Leu	Ala	Lys	Ser	Ile	Gly	Val	Ser	Asn
	130					135						140			
Phe	Asn	Pro	Gln	Ala	Ala	Gly	Asp								
145						150									

<210> 788
 <211> 1633
 <212> DNA
 <213> Homo sapiens

<400> 788

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ccagactagc	gaacaataca	gtcgggatgg	ctaaagggtga	ccccaagaaa	ccaaagggca	120
agacgtccgc	ttatgccttc	tttgtgcaga	catgcagaga	agaacataag	aagaaaaacc	180
cagagggtccc	tgtcaatttt	gcggaatttt	ccaagaagtg	ctctgagagg	tggaagacgg	240
tgtccgggaa	agagaaatcc	aaatttgatg	aatggcaaaa	ggcagataaa	gtgcgctatg	300
atcgggaaat	gaaggattat	ggaccagcta	agggaggcaa	gaagaagaag	gatcctaata	360
ctcccaaaaag	gccaccgtct	ggattcttcc	tgttctgttc	agaattccgc	cccaagatca	420
aatccacaaa	cccgggcata	tctattggag	acgtggcaaa	aaagctgggt	gagatgtgga	480
ataattttaa	tgacagtga	aagcagcctt	acatcactaa	ggcggcaaag	ctgaaggaga	540
agtatgagaa	ggatgttgct	gactataagt	cgaaaggaaa	gtttgatggg	gcaaaggggc	600
ctgctaaagt	tgcccggaaa	aaggtggaag	aggaagatga	agaacaggag	gaggaagaag	660
aggaggagga	ggaggaggag	gatgaataaa	gaaactgttt	atctgtctcc	ttgtgaatac	720
ttagagtagg	ggagcgccgt	aattgacaca	tctcttattt	gagaagtgtc	tgttgccctc	780
attaggttta	attacaaaat	ttgatcacga	tcatattgta	gtctctcaaa	gtgctctaga	840
aattgtcagt	ggtttacatg	aagtggccat	gggtgtctgg	agcaccctga	aactgtatca	900
aagttgtaca	tatttccaaa	cattttttaa	atgaaaaggc	actctcgtgt	tctcctcact	960
ctgtgcactt	tgctgttggt	gtgacaaggc	atttaaagat	gtttctggca	ttttcttttt	1020
atttgtaagg	tggtggtaac	tatggttatt	ggctagaaat	cctgagtttt	caactgtata	1080
tatctatagt	ttgtaaaaag	aacaaaacaa	ccgagacaaa	cccttgatgc	tccttgctcg	1140
gcgttgaggc	tgtggggaag	atgccttttg	ggagaggctg	tagctcaggg	cgtgcactgt	1200
gaggctggac	ctgttgactc	tgcagggggc	atccatttag	cttcaggttg	tcttgtttct	1260
gtatatagtg	acatagcatt	ctgctgccat	cttagctgtg	gacaaaaggg	ggtcagctgg	1320

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catgagaata ttttttttta agtgcggtag tttttaaaact gtttggtttt aaacaaacta 1380
tagaactctt cattgtcagc aaagcaaaga gtcactgcat caatgaaagt tcaagaacct 1440
cctgtactta aacacgattc gcaacgttct gttatTTTTT ttgtatgttt agaattgctga 1500
aatgtttttg aagttaaata aacagtatta cattttttaga actcttctct actataacag 1560
tcaatttctg actcacagca gtgaacaaac cccactccg ttgtatttgg agactggcct 1620
ccctataaat gtg 1633

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<210> 789
<211> 200
<212> PRT
<213> Homo sapiens

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<400> 789
Met Ala Lys Gly Asp Pro Lys Lys Pro Lys Gly Lys Met Ser Ala Tyr
 1          5          10          15
Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 20          25          30
Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 35          40          45
Trp Lys Thr Met Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 50          55          60
Lys Ala Asp Lys Val Arg Tyr Asp Arg Glu Met Lys Asp Tyr Gly Pro
 65          70          75          80
Ala Lys Gly Gly Lys Lys Lys Lys Asp Pro Asn Ala Pro Lys Arg Pro
 85          90          95
Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
100          105          110
Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
115          120          125
Glu Met Trp Asn Asn Leu Asn Asp Ser Glu Lys Gln Pro Tyr Ile Thr
130          135          140
Lys Ala Ala Lys Leu Lys Glu Lys Tyr Glu Lys Asp Val Ala Asp Tyr
145          150          155          160
Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
165          170          175
Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Glu Glu Glu Glu Glu
180          185          190
Glu Glu Glu Glu Glu Glu Asp Glu
195          200

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<210> 790
<211> 457
<212> DNA
<213> Homo sapiens

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<400> 790
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gattctttct ccgctactga gacacggcgg acacacacaa acacagaacc acacagccag 120
tcccaggagc ccagtaatgg agagcccaa aaagaagaac cagcagctga aagtcgggat 180
cctacacctg ggcagcagac agaagaagat caggatacag ctgagatccc agtgcgcgac 240
atggaagggtg atctgcaaga gctgcatcag tcaaacaccg gggataaatc tggatttggg 300
ttccggcgtc aaggtgaaga taatacctaa agaggaacac tgtaaaatgc cagaagcagg 360
tgaagagcaa ccacaagttt aaatgaagac aagctgaaac aacgcaagct ggttttatat 420

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tagatatttg acttaaacta tctcaataaa gttttgc

457

<210> 791

<211> 126

<212> PRT

<213> Homo sapiens

<400> 791

Ser	Pro	Val	Leu	Gly	Thr	Arg	Arg	Ser	Cys	Glu	Pro	Ala	Thr	Arg	Val
1				5					10					15	
Pro	Glu	Val	Trp	Ile	Leu	Ser	Pro	Leu	Leu	Arg	His	Gly	Gly	His	Thr
			20					25					30		
Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu	Ser
		35					40					45			
Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His	Leu	Gly
	50					55					60				
Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys	Ala	Thr
65					70				75					80	
Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly	Ile	Asn
			85					90					95		
Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys	Glu	Glu
			100					105					110		
His	Cys	Lys	Met	Pro	Glu	Ala	Gly	Glu	Glu	Gln	Pro	Gln	Val		
		115					120					125			

<210> 792

<211> 461

<212> DNA

<213> Homo sapiens

<400> 792

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gagagcccca	aaaagaagaa	ccagcagctg	aaagtcggga	tcctacacct	gggcagcaga	180
cagaagaaga	tcaggataca	gctgagatcc	caggtgctgg	gaagggaaat	gcgcgacatg	240
gaaggtgatc	tgcaagagct	gcacagtc	aacaccgggg	ataaatctgg	atttgggttc	300
cggcgtcaag	gtgaagataa	tacctaaaga	ggaacactgt	aaaatgccag	aagcaggtga	360
agagcaacca	caagttttaa	tgaagacaag	ctgaaacaac	gcaagctggt	tttatattag	420
atatttgact	taaactatct	caataaagtt	ttgcagcttt	c		461

<210> 793

<211> 108

<212> PRT

<213> Homo sapiens

<400> 793

Arg	Arg	Ser	Cys	Glu	Pro	Ala	Thr	Arg	Val	Pro	Glu	Val	Trp	Ile	Leu
1				5					10					15	
Ser	Pro	Leu	Leu	Arg	His	Gly	Gly	His	Thr	Gln	Thr	Gln	Asn	His	Thr
			20					25					30		
Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln
		35					40					45			
Gln	Leu	Lys	Val	Gly	Ile	Leu	His	Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile

50		55		60
Arg Ile Gln Leu Arg Ser Gln Val Leu Gly Arg Glu Met Arg Asp Met				
65		70		75
Glu Gly Asp Leu Gln Glu Leu His Gln Ser Asn Thr Gly Asp Lys Ser				
	85		90	95
Gly Phe Gly Phe Arg Arg Gln Gly Glu Asp Asn Thr				
	100		105	

<210> 794
 <211> 970
 <212> DNA
 <213> Homo sapiens

<400> 794

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ctttctctct	caaactggct	ttttctcatt	cctttgactc	cgccagactt	cctcgcccc	120
atgacctggt	gttgtgtctg	atcaccccaa	cattcctggc	tgcccaatgt	ggggcaatga	180
agaccccagt	gaaggaatgc	tagagtgtgt	gaaagtggag	gacgcatcgt	caaaggacac	240
ctgaggacgt	ctcaaagaag	ctcggcggga	gagctgagcg	ctcggaagaa	ccaagaatca	300
tctcttttga	aaaatcgatt	catcaaata	atcttcagcc	aacaactgtt	caagaaggat	360
gcaaatatca	cagtgttaga	tgaactttct	ggttgacacc	tgacaggaag	agcctctgta	420
ttggaccacc	atgtttgtgc	tactgtgtga	gtaacaaacc	aacacaccaa	aatagcggga	480
gttgccactg	acaaagagtt	gaatgatcaa	atgacggcca	aaggaggagg	ttccgagaag	540
taaagctttg	gaggtcacaa	aattagcaat	agaagctggg	ttccgccata	tagattctgc	600
tcatttatac	aataatgagg	agcagggttg	actggccatc	cgaagcaaga	ttgcagatgg	660
cagtgtgaag	agagaagaca	tattctacac	ttcaaagctt	tggtccactt	ttcatcgacc	720
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cctctatctt	attcattctc	caatgtctct	aaagccaggt	gaggaacttt	caccaacaga	840
tgaaaatgga	aaagtaatat	ttgacatagt	ggatctctgt	accacctggg	aggccatgga	900
gaagtgtgaag	gatgcaggat	tggccaagtc	cattgggggtg	tcaaacttca	acccgcaggc	960
agctggagat						970

<210> 795
 <211> 152
 <212> PRT
 <213> Homo sapiens

<400> 795

Arg Pro Lys Glu Glu Val Pro Arg Ser Lys Ala Leu Glu Val Thr Lys	
1	5
Leu Ala Ile Glu Ala Gly Phe Arg His Ile Asp Ser Ala His Leu Tyr	
	20
Asn Asn Glu Glu Gln Val Gly Leu Ala Ile Arg Ser Lys Ile Ala Asp	
	35
Gly Ser Val Lys Arg Glu Asp Ile Phe Tyr Thr Ser Lys Leu Trp Ser	
50	55
Thr Phe His Arg Pro Glu Leu Val Arg Pro Ala Leu Glu Asn Ser Leu	
65	70
Lys Lys Ala Gln Leu Asp Tyr Val Asp Leu Tyr Leu Ile His Ser Pro	
	85
Met Ser Leu Lys Pro Gly Glu Glu Leu Ser Pro Thr Asp Glu Asn Gly	
	100
Lys Val Ile Phe Asp Ile Val Asp Leu Cys Thr Thr Trp Glu Ala Met	

115	120	125
Glu Lys Cys Lys Asp Ala Gly Leu Ala Lys Ser	Ile Gly Val Ser Asn	
130	135	140
Phe Asn Pro Gln Ala Ala Gly Asp		
145	150	

<210> 796
 <211> 2435
 <212> DNA
 <213> Homo sapiens

<400> 796

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ccagacagcg	tgccccccat	cgatgtcctc	tggatcaaag	gggcccaggg	aggtgactac	180
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atccccgcca	agcttgtcca	gtccactctc	tcagacctaa	gggtgtacct	gggagcatcc	300
acaccagact	tgcagtagca	gcctccttgg	cacctgctgc	caccttcaag	agcccagaag	360
acacacctgg	cctccagcag	gctggggccat	gcagaaggga	tagcaggggt	gcattctctt	420
tgcacctggc	gagaggggtct	gactctgggc	acccctctca	ccagctacaa	ggccttggac	480
tcactgtaca	gtgtggggagc	cccagttccc	acctctgtga	caataggatc	atggccttac	540
ccttgaagca	ttaccgagaa	ggagaacaga	gatgggcttg	aagagccacg	tgctgccggc	600
tccaaattcc	caaggacaag	gatccctctg	cattttttgtc	tatgtaacct	cttatatgga	660
ctacattcag	ctgcaaggaa	aggaaaacct	tgattgcagt	ggtttaaaca	aacagaagat	720
tgttttttcca	catagcatgg	attctggaga	tgggtggcta	atggtattgg	ttcaacaact	780
ccacgaaggt	aggggtcacg	tcttggatcc	ttttgcctta	atctcagtgc	tcgttacttc	840
atggtcccaa	gatggctgct	gtatccccaa	gaatcatgtc	tgcgttcaag	gaaggagggg	900
tggaggaaga	ggaagggccca	aactagctgg	accgctcacc	ttctatcaga	aagtaaaacc	960
tcgtcagaag	tctgtttcct	gctctctccc	tctgcatatc	ttcacttaga	tgcccttggc	1020
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ttgtcatggc	tgaatagacc	aatcgtgttc	catctactga	gactggcaca	ctgcctcctg	1140
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tgctgtgtaa	caaaccatcc	ccaaacttgg	cagctagaaa	caaaccctgt	attttcccac	1260
aatcctatgg	gttggcaatt	tgggctgggc	tcaacagggc	agttctgctg	ctcacacctg	1320
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gagagtgaga	gtagaagctg	aaagacttct	tgagttcttg	gcctggaact	gggactagga	1560
cagtgtcact	tctgctaagt	tcttttgggtc	agagcaaatc	acaaggcttt	accagatttc	1620
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tccccctttc	tctctgtctc	atgggggcctc	actctgccaa	gttggaaggc	actaagacat	1800
tgtcctggcc	ctcaggggtct	aggggaagag	gtgtttggggc	aggaagtgag	tctctccatg	1860
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taaggcaggc	cttgtttctca	ctgccctcta	agggaacttg	gtcactcggc	acttttaagc	2040
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ggaaagttag	ctgaggtgac	cagtaataga	attgaaaagg	gagagtgtct	tcagtgcaat	2160
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tgaaaaaagt	ctgaatttta	gttaatatatac	caatttcagt	cycttggttt	tgacagatgt	2280
accatggtag	tgtaagatgt	tgaccttggg	gtaggctggg	tgaagggtat	acaggaactc	2340
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taatttataaa	aaaaaaaaaa	aaaaaaaaaa	aaaaa			2435

<400> 797															
Thr	Thr	Arg	Pro	Arg	Thr	Arg	Gly	Gln	Arg	Glu	Ser	Trp	Arg	His	Leu
1				5					10					15	
Ala	Ser	Gly	Ala	Gly	Val	Gly	Leu	Gly	Thr	Ala	Gly	Ser	Arg	Pro	Asp
			20					25					30		
Arg	Gly	Gly	Val	Gly	Gly	Glu	Thr	Arg	Ala	Ala	Leu	Ala	Arg	Ala	Pro
		35					40					45			
Pro	Pro	Gly	Arg	Ala	Glu	Trp	Tyr	Gly	Pro	Ala	Gly	Val	Lys	Ala	Gly
	50					55					60				
Gly	Arg	Arg	Arg	Val	Pro	Arg	Arg	Arg	Arg	Arg	Trp	Gly	Cys	Val	Gln
65				70						75					80
Glu	Glu	Arg	Trp	Ala	Gly	Pro	Ala	Arg	Val	Gly	Gly	Arg	Pro	Arg	Gly
				85					90					95	
Pro	Gly	Arg	Ala	Ala	Ala	Arg	Arg	Ala	Ala	Ala	Ser	Thr	Arg	Ala	Ala
			100					105					110		
Ser	Pro	Arg	Cys	Thr	Thr	Cys	Arg								
		115					120								

[illegible]

<210> 799
 <211> 60
 <212> PRT
 <213> Homo sapiens

<400> 799
 His Ala Ser Ala Asp Ala Trp Ala Ala Arg Val Met Ala Ala Pro Gly
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4637

<210> 805

<211> 394

<212> PRT

<213> Homo sapiens

<400> 805

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Ser	His	Gly	Thr	Leu	Gly	Leu	Pro	Ser	Gly	Gly	Lys	Cys	Leu	Leu	Leu
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Asp	Cys	Arg	Pro	Phe	Leu	Ala	His	Ser	Ala	Gly	Tyr	Ile	Leu	Gly	Ser
	50					55					60				
Val	Asn	Val	Arg	Cys	Asn	Thr	Ile	Val	Arg	Arg	Arg	Ala	Lys	Gly	Ser
65					70				75						80
Val	Ser	Leu	Glu	Gln	Ile	Leu	Pro	Ala	Glu	Glu	Glu	Val	Arg	Ala	Arg
				85					90					95	
Leu	Arg	Ser	Gly	Leu	Tyr	Ser	Ala	Val	Ile	Val	Tyr	Asp	Glu	Arg	Ser
			100					105					110		
Pro	Arg	Ala	Glu	Ser	Leu	Arg	Glu	Asp	Ser	Thr	Val	Ser	Leu	Val	Val
		115					120					125			
Gln	Ala	Leu	Arg	Arg	Asn	Ala	Glu	Arg	Thr	Asp	Ile	Cys	Leu	Leu	Lys
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Thr	Lys	Ala	Leu	Ala	Ala	Ile	Pro	Pro	Pro	Val	Pro	Pro	Ser	Ala	Thr
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Glu	Pro	Leu	Asp	Leu	Asp	Cys	Ser	Ser	Cys	Gly	Thr	Pro	Leu	His	Asp
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Gln	Glu	Gly	Pro	Val	Glu	Ile	Leu	Pro	Phe	Leu	Tyr	Leu	Gly	Ser	Ala
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Tyr	His	Ala	Ala	Arg	Arg	Asp	Met	Leu	Asp	Ala	Leu	Gly	Ile	Thr	Ala
		210				215					220				
Leu	Leu	Asn	Val	Ser	Ser	Asp	Cys	Pro	Asn	His	Phe	Glu	Gly	His	Tyr
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Gln	Tyr	Lys	Cys	Ile	Pro	Val	Glu	Asp	Asn	His	Lys	Ala	Asp	Ile	Ser
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Ser	Trp	Phe	Met	Glu	Ala	Ile	Glu	Tyr	Ile	Asp	Ala	Val	Lys	Asp	Cys
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Arg	Gly	Arg	Val	Leu	Val	His	Cys	Gln	Ala	Gly	Ile	Ser	Arg	Ser	Ala
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Thr	Ile	Cys	Leu	Ala	Tyr	Leu	Met	Met	Lys	Lys	Arg	Val	Arg	Leu	Glu
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Glu	Ala	Phe	Glu	Phe	Val	Lys	Gln	Arg	Arg	Ser	Ile	Ile	Ser	Pro	Asn
305					310					315					320
Phe	Ser	Phe	Met	Gly	Gln	Leu	Leu	Gln	Phe	Glu	Ser	Gln	Val	Leu	Ala
				325					330					335	
Thr	Ser	Cys	Ala	Ala	Glu	Ala	Ala	Ser	Pro	Ser	Gly	Pro	Leu	Gly	Glu
			340					345					350		
Arg	Gly	Lys	Thr	Pro	Ala	Thr	Pro	Thr	Ser	Gln	Phe	Val	Phe	Ser	Phe
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<210> 806
 <211> 302
 <212> PRT
 <213> Homo sapiens

<400> 806
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 35 40 45
 Cys Leu Leu Lys Gly Gly Tyr Glu Arg Phe Ser Ser Glu Tyr Pro Glu
 50 55 60
 Phe Cys Ser Lys Thr Lys Ala Leu Ala Ala Ile Pro Pro Pro Val Pro
 65 70 75 80
 Pro Ser Ala Thr Glu Pro Leu Asp Leu Gly Cys Ser Ser Cys Gly Thr
 85 90 95
 Pro Leu His Asp Gln Gly Gly Pro Val Glu Ile Leu Pro Phe Leu Tyr
 100 105 110
 Leu Gly Ser Ala Tyr His Ala Ala Arg Arg Asp Met Leu Asp Ala Leu
 115 120 125
 Gly Ile Thr Ala Leu Leu Asn Val Ser Ser Asp Cys Pro Asn His Phe
 130 135 140
 Glu Gly His Tyr Gln Tyr Lys Cys Ile Pro Val Glu Asp Asn His Lys
 145 150 155 160
 Ala Asp Ile Ser Ser Trp Phe Met Glu Ala Ile Glu Tyr Ile Asp Ala
 165 170 175
 Val Lys Asp Cys Arg Gly Arg Val Leu Val His Cys Gln Ala Gly Ile
 180 185 190
 Ser Arg Ser Ala Thr Ile Cys Leu Ala Tyr Leu Met Met Lys Lys Arg
 195 200 205
 Val Arg Leu Glu Glu Ala Phe Glu Phe Val Lys Gln Arg Arg Ser Ile
 210 215 220
 Ile Ser Pro Asn Phe Ser Phe Met Gly Gln Leu Leu Gln Phe Glu Ser
 225 230 235 240
 Gln Val Leu Ala Thr Ser Cys Ala Ala Glu Ala Ala Ser Pro Ser Gly
 245 250 255
 Pro Leu Arg Glu Arg Gly Lys Thr Pro Ala Thr Pro Thr Ser Gln Phe
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 275 280 285
 Leu Pro Tyr Leu His Ser Pro Ile Thr Thr Ser Pro Ser Cys
 290 295 300

<210> 807
 <211> 3829

<212> DNA

<213> Homo sapiens

<400> 807

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<210> 808

<211> 781

<212> DNA

<213> Homo sapiens

<400> 808

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gaagaggaac cagcaggctt ccggagggtt gtgtgggtcag tgactcagag tgagaaggcc 180
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<210> 809

<211> 160

<212> PRT

<213> Homo sapiens

<400> 809

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 20          25          30
Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
 35          40          45
Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
 50          55          60
His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
 65          70          75          80
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
 85          90          95

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Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys
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		115					120					125			
Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys
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<210> 810
 <211> 624
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 5, 74
 <223> n = A,T,C or G

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 acacggatgc cgaggaggca ggggtgagca ccgatgccgg cggccactat gactgcccgc 180
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 acaggggcta cgaccggccc aaagctgtca gcgccctcgc caccgaaagc ggacaccctg 480
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 gcctgctgtg gtactgagcg tcgg 624

<210> 811
 <211> 572
 <212> DNA
 <213> Homo sapiens

<400> 811
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<210> 812
 <211> 594
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 45
 <223> n = A,T,C or G

<400> 812
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<210> 813
 <211> 561
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 121, 352, 368, 440, 445, 486, 497, 516, 528, 540, 550, 552
 <223> n = A,T,C or G

<400> 813
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<210> 814
 <211> 307
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 6, 9, 24, 26, 45, 46, 63, 64, 73, 81, 82, 91, 95, 138,
 148, 151, 188, 205, 206, 212, 223, 229, 234, 242, 245, 248,
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 <223> n = A,T,C or G

<400> 814
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cccttcanag ccctagtcac aggcnnccagg gntgttttgt aanttaaant ttcnngaaaa 240
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<210> 815
<211> 784
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 596, 656, 727, 763, 768
<223> n = A,T,C or G

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<400> 815
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<210> 816
<211> 813
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 740, 788, 790, 798, 811
<223> n = A,T,C or G

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<400> 816
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gtcgtgaggt ctgcttgat ctcttcactg gcgttagttt cattagctct ttattctcct 540
tacgttcgag tgaatctgcc aagaacactg gtggatagta ttatcctaac acttttggtt 600
tgggggcggg gagggggcag ggaatagtga gctggcttta ccaccctcag gatctcgaat 660

```

```

tgggcgcttg aacctaagaa agattgtgga cttatcaaaa gtcaccgctc agtgttcgtc 720
aagcatgtat ttatgtgacn atcatactag ggaggggatg gttgggaatt cttccatgtg 780
caaatttngn cccgcaanaa gcaaaaactgg ng 813

```

```

<210> 817
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 30, 57, 102, 112, 124, 222
<223> n = A,T,C or G

```

```

<400> 817
gaaactttta cattaatgat ttattaaaan aaacaactcc ttgtcccact ccactgngct 60
gcttgtaatc tccatacatg gcctccattt tcaactgttt tnttggtcac anagctccaa 120
acanacacat ttttttttcc aggtaaaagc tgtttttagt ttgtagtaca aatgtgactg 180
catccaatac tgacacattg ttcctttggc ccacagtccc antcaccac 229

```

```

<210> 818
<211> 781
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 355, 437, 539, 557, 569, 593, 608, 635, 636, 653, 654, 662,
665, 674, 697, 699, 708, 724, 734, 743, 755, 763, 764, 769,
775
<223> n = A,T,C or G

```

```

<400> 818
ggcacgaggt gtgtgtgtgt gtgtgtgtgt aacacatggg cattgggtcct tccaggacaa 60
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tcctcacatc acgtcctgcc ccaggctact gcataaataa gtgctttgga aagtattcat 180
ctagaaagta acataaatac tgtacataga aaagggttgc cgccccttag ccttcgcact 240
gccccagaga gctctccaca tattgcacac ggctcccca gccctgtggg gtccaggcct 300
ggctgtgtct ttggtagaag cttcagggtg agttcctggg cagccccac atctncacc 360
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tggtggcctt ctaccangga tgctttcaca aggatgagac agaatcccaa tggtagccc 480
ctgcttgga actctgctca aggtctgcat gtggcctggg aggagacagg caggctgang 540
gcagggtgga aggtgantcc tggccacana aggcaggctc acacccttca cangaatagg 600
tggtttgngc tgcctctcgc gccacgggc tcctnntgcg ccaccccccc ttnntgaatc 660
gnaantcctc aaanccctta ccaccacttg atgaccnanc attttttangg cctggcttga 720
agnggggggc ctnnggcccc ccnaaggggg aaatncccc ggnngaatac ccaangggga 780
a 781

```

```

<210> 819
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<220>

```

```

<221> misc_feature
<222> 2, 3, 4, 12, 20, 21, 22, 36, 37, 49, 76, 80, 83, 88, 157,
165, 167, 177
<223> n = A,T,C or G

<400> 819
cnnngtgga anggctgggn nngcggccgt tttcgnngta gtatcgcgnt tttttttttt 60
tttttgtggg aggttntgcn gtntttgntt gctctctcaa attccaggaa ttgacttatt 120
taattaatgc ctgcaacctg tgctagcaaa tatttgnaca aaacnanttg tgttggngat 180
gttcttttgg gtcgggcag 199

<210> 820
<211> 211
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 3, 128, 131, 150, 157, 159, 166, 172, 174, 180, 182,
185, 192, 202, 206
<223> n = A,T,C or G

<400> 820
nnnggcacga ggagagagag agagagagag agagagagag agagagagag agagagagag 60
agagagagag agagagagag agagagagag agagagagag agagagagag agagagagag 120
agacagtntc ntgtgtgtct ctctgtctcn aagtacncnc tgaggntatct gntntctgtn 180
tntngntaca cngtatctct cntggncata t 211

<210> 821
<211> 952
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 2, 3, 29, 688, 692, 702, 742, 749, 767, 774, 786, 805,
815, 828, 835, 840, 842, 854, 864, 868, 871, 879, 889, 890,
895, 900, 904, 909, 912, 915, 926, 939, 944, 947
<223> n = A,T,C or G

<400> 821
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cagcaccaag acgaaatggg aaactacatg tccccagggt cgaggctgca ggggcagact 180
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cctcatcttt agcaacacat ttgcttttca aggtgttctt tgtggaaaca cacatacaca 480
tagacacatg ccctcagat gtccctgcc ccctgattag tagaatgtgg ggtttccaca 540
atgagcagaa actgatccaa ttttggttaa gtttgagaag ccctctgaat ttgggtgggt 600
ggcccaatgt aaatacttcc gcagagatgg agggcattca aaacagggtt tgaaaggatc 660
cagcctatct tggactttgt tctggaancc anggattcag cnttggccac ctgtgccagg 720
cttgcaaggc ctggtgtgaa cncccaaant ggcagcaaaa acaacanaca gccnctgcac 780

```

```

tttggntgga ccaacgtttg gcctnaacaa atctngcggg ttgggatntt cttgntttcn 840
cneccagggg accnaaaacc ccntacntg naataacent ttttttttnn aaccntttan 900
ccantgggnt tncnnaaaaa acttgncccc ttttttttnc caangnaaa at 952

```

```

<210> 822
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 264, 335, 366, 371, 410, 413, 416, 424, 438, 464, 477, 478,
497, 502, 509, 540, 575, 577, 581
<223> n = A,T,C or G

```

```

<400> 822
ggcacgagaa ctagtctcga gttttttttt ttttttttta acatttctga attttattat 60
ttttagggaa gacacgcagt ttcacaagaa acaatgattt ttctcaaaca atagaaaaaa 120
aggtcttttt gaaaaatcca ctgtcttaga tgaaaagtct acccagcaag cactggggca 180
gttctgagag tagaaaccag tgtgggtggaa gttacttata ggaagttagc tgcagaggtc 240
tcacaaagtc ctgattagtt ctgnaaggct ccattggggc agctcagggt aacagtggga 300
atgagctcac agacaaaggc aggcaccagt tcctntgccc gggatgcagg ctggctcact 360
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actntgttga gaacatanaa ctctgctctc tggtcttgct tcantcctg gtgggcnnaa 480
ttctgcttag ccttctncac tntgaaggnt gggctcttaa cttttggatt tttttttcn 540
ggcaggggga accatgaatg gggtagatac ccacncnggg ntttggc 587

```

```

<210> 823
<211> 264
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1, 4, 7, 15, 17, 35, 38, 44, 53, 90, 105, 108, 115, 117,
121, 126, 128, 158, 176, 178, 184, 201, 221, 227, 229, 233,
239, 250
<223> n = A,T,C or G

```

```

<400> 823
ntcnatncct actangncaa actgactccg cctnagnca cctngtggtc canggctgcg 60
gagctgcgat acagccttcc gcgggtctgn tggaaccccg acctntcntg gtgtntntcc 120
ntcccnccncc ccaacccgcc aagggcctgc ctttccctnc gggcctttgc cagcgtntgg 180
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aaaccccggn tgatgttata aagg 264

```

```

<210> 824
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 7, 15, 17, 39, 60, 81, 98, 101, 110, 111, 138, 145, 174,

```

222, 250, 262, 311, 318, 332, 336, 345, 378, 406, 411, 414,
421, 426, 439, 447, 448, 450, 474, 479, 489, 494, 498, 505,
508, 510

<223> n = A,T,C or G

<400> 824

tcaagcngcc	cccantntga	tggatatctg	caaaattcnc	cctttcaccg	gccgcccgc	60
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gttaacaaaa	taggaaantc	tattngaact	aacaatcatc	tctttgaatc	tgcntatccc	180
attaaaagca	ttttcctcaa	tattcctcat	atcggttatg	gncaatggat	acccatctga	240
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acaaacctaa	ncaaccanca	gatatacttg	anggtntctc	ctgtnatttc	tcagattcca	360
atataccatt	ttgccttnac	acctacagcc	cttaggggca	tcctcnttcc	ncanaacaaa	420
ncattntcac	taagacagnc	tggggtnntn	caccaatggc	taccaaacct	ctgnccgcna	480
cccaccgcnt	aaanggcnga	aattnccnan	ccacacgggt			520

<210> 825

<211> 2064

<212> DNA

<213> Homo sapiens

<400> 825

cggtgcgctg	agcgccggag	gagcgtaggc	agggcagcgc	tggcgccagt	ggcgacagga	60
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tcgtaaacac	actctctctc	accggcgcc	ccccctccgc	tctgcgcgcc	gcccggctgg	180
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tcccttctta	gctctcgccc	gcccctttct	gcagcctagg	cggccccggg	tctcttctct	360
tcctcgcgcg	cccagccgcc	tcgggttccc	gcgaccatgg	tgacgatgga	ggagctgcgg	420
gagatggact	gcagtgtgct	caaaaggctg	atgaaccggg	acgagaatgg	cggcggcgcg	480
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```

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gacaagtttc ccagaagtgc ctggttctgt gtacttgtcc ctttgttgtc gttgtttag 2040
ttaaaggaat ttcatttttt aaaa 2064

```

<210> 826

<211> 2109

<212> DNA

<213> Homo sapiens

<400> 826

```

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taagacttt 2109

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<210> 827

<211> 394

<212> PRT

<213> Homo sapiens

<400> 827

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			20			25
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		35				40
Asp	Cys	Arg	Pro	Phe	Leu	Ala
		50				55
Val	Asn	Val	Arg	Cys	Asn	Thr
65					70	
Val	Ser	Leu	Glu	Gln	Ile	Leu
				85		
Leu	Arg	Ser	Gly	Leu	Tyr	Ser
			100			105
Pro	Arg	Ala	Glu	Ser	Leu	Arg
		115				120
Gln	Ala	Leu	Arg	Arg	Asn	Ala
		130				135
Gly	Gly	Tyr	Glu	Arg	Phe	Ser
145					150	
Thr	Lys	Ala	Leu	Ala	Ala	Ile
			165			170
Glu	Pro	Leu	Asp	Leu	Gly	Cys
			180			185
Gln	Gly	Gly	Pro	Val	Glu	Ile
		195				200
Tyr	His	Ala	Ala	Arg	Arg	Asp
		210				215
Leu	Leu	Asn	Val	Ser	Ser	Asp
225					230	
Gln	Tyr	Lys	Cys	Ile	Pro	Val
			245			250
Ser	Trp	Phe	Met	Glu	Ala	Ile
			260			265
Arg	Gly	Arg	Val	Leu	Val	His
		275				280
Thr	Ile	Cys	Leu	Ala	Tyr	Leu
		290				295
Glu	Ala	Phe	Glu	Phe	Val	Lys
305					310	
Phe	Ser	Phe	Met	Gly	Gln	Leu
			325			330
Thr	Ser	Cys	Ala	Ala	Glu	Ala
			340			345
Arg	Gly	Lys	Thr	Pro	Ala	Thr
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Pro	Val	Ser	Val	Gly	Val	His
		370				375
His	Ser	Pro	Ile	Thr	Thr	Ser
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<210> 828

<211> 453

<212> DNA

<213> Homo sapiens

<400> 828

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gacttcccac ccgaagtaga ggaacaggat gccagcacc tgcctgtgtc ttgtgcctgg 360
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gcactctggg agctgttaac tgcaagttta gct 453

```

<210> 829

<211> 452

<212> DNA

<213> Homo sapiens

<400> 829

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ctgggccacg aggacaccac cagcttggat cggcctcgcc gtgtggaata cttttagat 60
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aaacaatgaa accagagctt ctaggtgtgt ggccctggata gtggttagatt caaagctcca 420
cccacctcat ccaggtaca tttgatgtgc ag 452

```

<210> 830

<211> 450

<212> DNA

<213> Homo sapiens

<400> 830

```

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
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tgcacgccct gagctacagc ctctcccaaa aggcatcttc cccacagcct caacgccgag 180
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acagtttcag ggtgctccag acacccatgg 450

```

<210> 831

<211> 395

<212> DNA

<213> Homo sapiens

<400> 831

```

ctctaaaccc ctccacattc ccgcggtcct tcagactgcc cggagagcgc gctctgcctg 60
ccgcctgcct gcctgccact gaggggtccc agcaccatga gggcctggat cttctttctc 120
ctttgcctgg ccgggagggc cttggcagcc cctcagcaag aagccctgcc tgatgagaca 180
gaggtggtgg aagaaactgt ggcagagggt actgaggtat ctgtgggagc taatcctgtc 240
caggtggaag taggagaatt tgatgatggt gcagaggaaa ccgaagagga ggtggtggcg 300
gaaaatccct gccagaacca ccactgcaaa cacggcaagg tgtgcgagct ggatgagaac 360

```

aacacccccca tgtgcgtgtg ccaggacccc accag

395

<210> 832

<211> 291

<212> DNA

<213> Homo sapiens

<400> 832

ctgactcttc	catctgtgca	ggttgactga	ggtcattcct	gagttgcagt	atgttgagag	60
ggtaatat	ctgtcttctc	taactcccca	tactcccttg	tcttccactc	tccacttagg	120
agttttttgt	gagttatgtc	cttggttgctt	ttgcctcttt	ttctttctag	ccttgattgt	180
gccagaagac	aatgtcccta	ttcacacact	ctttctgctt	ttctgtgggc	aggaacatgg	240
aaggggtgct	gatggacgtg	gactgtgaga	gcgtctaccc	cactgtgtag	g	291

<210> 833

<211> 491

<212> DNA

<213> Homo sapiens

<400> 833

ctgtagcttc	tgtgggactt	ccactgctca	ggcgtcaggc	tcaggtagct	gctggccgcg	60
tacttggtgt	tgctttgttt	ggaggggtgtg	gtggctctcca	ctcccgctt	gacggggctg	120
ctatctgct	tccaggccac	tgtcacggct	tccgggtaga	agtcacttat	gagacacacc	180
agtgtggcct	tggtggcttg	aagctcctca	gaggagggcg	ggaacagagt	gaccgagggg	240
gcagccttgg	gctgacctag	gacggtcagc	ttggctccctc	cgccgaagac	cacattattg	300
ccgtcccacg	tctgacagta	atagtcagcc	tcatccatag	cctgggtccc	gctgatggtc	360
agagtggctg	tgttcccaga	gttggagcca	gagaagcgct	cagggatccc	tgaagaccgc	420
ttattatctt	gataaatgac	taccacaggg	gactggcctg	gcttctgttg	ataccaacaa	480
gcagatacct	g					491

<210> 834

<211> 308

<212> DNA

<213> Homo sapiens

<400> 834

ctgggtcgagg	tccacgccgc	ggtaggtgaa	cttgcggaag	gtccgcttct	tcttctgctc	60
tacttctgcc	gtgctggaga	acatcgaact	gaacaagaag	agtatgtatt	cccgtgtgcc	120
agagtgccag	gtcaccacat	actattatgt	tgggttcgca	tatttgatga	tgcgtcgtta	180
ccaggatgcc	atccgggtct	tcgccaacat	cctcctctac	atccagagga	ccaagagcat	240
gttccagagg	accacgtaca	agtatgagat	gattaacaag	cagaatgagc	agatgcatgc	300
gctgctgg						308

<210> 835

<211> 472

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 365, 402, 406

<223> n = A,T,C or G

<400> 835

```

ctgacatggt aactgtgatg cataaaactc gatcttctga tggggagtaa gtgcagaagg 60
tagaaatctc cgccccgcgg gggcttatct gtactggtag ttcattgctgt ggtctgcgtt 120
tctgccatag ccgccttggt aggactggta ggagctggga gggccactgt agttctggcc 180
ggacccccgg gagttgtagt tcgactgtga gtacccctct tgtttgcctt ggtatgagga 240
gccgccccca gaacctccgc cgtagcccc cgtgtgacct gggttgtagg atgccccgcc 300
tgagccgtag ctgttccgcg cgcttcggcc tccactacca ctgtagttga atttgctctc 360
gtagntgtag tcggatccgc ccccgcccc gggagagttg tngganttcg agtaggagta 420
gctgccttgt ccatgggttat agcctttctg cttgccctgt ggagggccat ag 472

```

<210> 836

<211> 354

<212> DNA

<213> Homo sapiens

<400> 836

```

ccagtgcac cttcagatag acacatgggt accagagccc gccaggcttc tgcagggtggc 60
agtgtcgagc aagtgtgaga tgtctgtggg aaggagaagc tcctgaaatg aacgttctgc 120
aaacagaagg ctgaggggtc ttccaggcat gtccagtcac taggagctgc caccggtggg 180
cttgagtgcc aggtctctagg ctttgtgcag aaagcaccgc gggcgggggg cggttaaggga 240
gagcaaaatg ggtctctctc aactgcagtc agtgctcctg ggaacacggg ctcacagaca 300
gcacatatcc tacgtcacag ctctagggtt tcaaggactt agccatccga cagg 354

```

<210> 837

<211> 318

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 282

<223> n = A,T,C or G

<400> 837

```

ctgaaaatga aggttaattaa aaccatggag gcgatcagcg aggttctcca ggaccttagg 60
tttgatgcgg aatctgccga gtgatggcgg ctccccaggg atgcgccgag ggagatggga 120
aacggggcgg atggcgccca gccagccct aactgccagc cacattgaag cggacattgg 180
caaccgggtc cccagccatg cgcagaaccg tgggtagcat gtgcttggtg gtgatgtcct 240
gcccacagac ctcagacggc acattgatgc agaagagcgt antcatgcgg tgcaggtagt 300
tgggggtctc ggacatgg 318

```

<210> 838

<211> 277

<212> DNA

<213> Homo sapiens

<400> 838

```

ctgcgcgtcg ccaaagtgc aggcgggtgc gcctccaagc tctctaagat ccgagtcgtc 60
cggaaatcca ttgccgtgt tctcacagtt attaaccaga ctcaaaaaga aaacctcagg 120
aaattctaca agggcaagaa gtacaagccc ctggacctgc ggcctaagaa ggcacgtgcc 180
atgcgccgcc ggctcaacaa gcacgaggag aacctgaaga ccaagaagca gcagcgggaag 240
gagcggctgt acccgctgcg gaagtacgcg gtcaagg 277

```

<210> 839

<211> 276

<212> DNA
<213> Homo sapiens

<400> 839
ccaaggaatg caggctgtac tatctgcgaa atggagaacg tatttcagtg tcggcagcct 60
ccaagctgct gtccaacatg atgtgccagt accggggcat gggcctctct atgggcagta 120
tgatctgtgg ctgggataag aagggtcctg gactctacta cgtggatgaa catgggactc 180
ggctctcagg aaatatgttc tccacgggta gtgggaacac ttatgcctac ggggtcatgg 240
acagtggcta tcggcctaata cttagccctg aagagg 276

<210> 840
<211> 453
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 387
<223> n = A,T,C or G

<400> 840
ccttctttgc catgaccaag ctctttcagt ccaatgatcc cacactccgt cggatgtgct 60
acttgaccat caaggagatg tcttgcatg cagaggatgt catcattgtc accagcagcc 120
taacaaaaga catgactggg aaagaagaca actaccgggg cccggccgtg cgagccctct 180
gccagatcac tgatagcacc atgctgcagg ctattgagcg ctacatgaaa caagccattg 240
tggaacaagg gccagtgctc tccagctctg ccctcgtgtc ttccttgac ctgctgaagt 300
gcagctttga cgtgggtcaag cgctgggtga atgaggctca ggaggcagca tccagtata 360
acatcatggt ccagtaccac gcactanggc tcctgtacca tgtgcgtaag aatgaccgcc 420
tagccgtcaa taagatgatc agcaaggctc cac 453

<210> 841
<211> 142
<212> DNA
<213> Homo sapiens

<400> 841
agcctctcta gtggcagagc agctcacact ccctccgctg ggaacgatgg cttctgccta 60
gtacctatcc ttgtgtttct gatgcagtgg tagcattggg tcaagttctc tcctgctgtg 120
gtcagagttg cttcgatggt gg 142

<210> 842
<211> 83
<212> DNA
<213> Homo sapiens

<400> 842
cctaaaagca gccaccaatt aagaaagcgt tcaagctcaa caccactac ctaaaaaatc 60
ccaacatat aactgaactc ccc 83

<210> 843
<211> 482
<212> DNA
<213> Homo sapiens

<400> 843

```

ccatcggtgt ctggcagatg cggcacctca agagcttctt tgaagccaag aagcttgtgt 60
agctgtccca ggcgtcacaa cccatcctcc caggctgggg gagaaaggac ctcttggaac 120
tgacttcttc tgtcaggagg actggtttcc agccatacct gttctggaag ggagaggggc 180
tggaggcacc cacaggcaca agctgaaggc agcagcttgg ctaatactga gcaggtagtg 240
gggcaaattc ctgccctctc tctctggcct ctggggccgtt tggtagtaat caccagggg 300
ctggtaaagc ccctcctctt ggcacctcag aatcacagtg ttactgatca gggatgtgag 360
gctgctgttg ggggtggggg gaggggaatg ggcaggcaag ccagtcttct gtcttccttt 420
gctaacttag ggttttgagc aggttggggg tatggtgcct gtcataccca cctgccaccc 480
tg                                                    482

```

<210> 844

<211> 534

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 495, 508

<223> n = A,T,C or G

<400> 844

```

ccagatTTTT caagtttaaa ggaggaaact gcttattgga aggaactttc cttgaagtat 60
aagcaaagct tccaggaagc tcgggatgag ctagttagaat tccaggaagg aagcagagaa 120
ttagaagcag agttggaggc acaattagta caggctgaac aaagaaatag agacttgcag 180
gctgataacc aaagactgaa atatgaagcg gaggcattaa aggagaagct agagcatcaa 240
tatgcacaga gctataagca ggtctcagtg ttagaagatg atttaagtca gactcgggcc 300
attaaggagc agttgcataa gtatgtgaga gagctggagc aggccaacga cgacctggag 360
cgagccaaaa gggcaacaat agtttcactg gaagactttt gaacaaaggc taaaccaggc 420
cattgaacga aatgcatttt tagaaagttg aacttgatga aaaaggaatc tttgttggtc 480
tctgtacaga ggttnaagga tgaagcanga gatttaaggc aagaactagc agtt          534

```

<210> 845

<211> 175

<212> DNA

<213> Homo sapiens

<400> 845

```

tcgacctgtg gcaaagtgtg ctaccctgcc aagcgcaaga gaaagtataa ctggagtgcc 60
aaggctaaaa gacgaaatac caccggaact ggtcggatga ggcacctaaa aattgtatac 120
cgcagattca ggcattggatt ccgtgaagga acaacaccta aaccaagag ggcag          175

```

<210> 846

<211> 179

<212> DNA

<213> Homo sapiens

<400> 846

```

cgcggtggaca gttgcgaggg gtctgtgtga aggcacttgt cagcagcttc aatactgccg 60
ccgtcccagg atgggagAAC tgcgcagcag gaagggcact tctgaaagca cagtggagag 120
atcgtctggag cgggcgttct gggcaggagg aagcacagac ggcaggcagg gtggactgg 179

```

<210> 847

<211> 410

<212> DNA
<213> Homo sapiens

<400> 847

```
ccaccaaaac cagtcacaag acctggagtt gtctgtgcag atgtacgccc aagccgccct 60
ggatggagac tcccagggat tttttaacct ggccctgcta atcgaggaag gtacgataat 120
cccacaccat atcttggatt tcttggaaat tgactcaact ctccattcta ataacatctc 180
cattctccag gaactgtacg aaagggtgctg gagccacagt aacgaggagt ccttcagccc 240
ctgctccttg gcctggcttt acctgcactt gcggcttctc tggggtgcta tcctgcactc 300
agccctgata tactttctgg gaacctttct gctatccata ttgatcgctt ggactgtgca 360
gtatttccag tctgtctcag caagcgatcc ccctccaaga ccatcccagg 410
```

<210> 848
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 508
<223> n = A,T,C or G

<400> 848

```
cacgggcccc cagccctgtg tcggccttgt ctgtctcagc tcaaccacag tctgacacca 60
gagcccaactt ccatactctc tgggtgtgagg cacagcgagg gcagcatctg gaggagctct 120
gcagcctcca cacctaccac gacctcccag ggctgggctc aggaaaaacc agccactgct 180
ttacaggaca gggggttgaa gctgagcccc gcctcacacc ccccccatg cactcaaaga 240
ttggatttta cagctacttg caattcaaaa ttcagaagaa taaaaaatgg gaacatacag 300
aactctaaaa gatagacatc agaaattggt aagttaagct ttttcaaaaa accagcaatt 360
ccccagcgta gtcaagggtg gacactgcac gctctggcat gatgggatgg cgaccgggca 420
agctttcttc ctcgagatgc tctgctgctt gagagctatt gctttgttaa gatataaaaa 480
ggggtttctt tttgtcttct tgtaaggngg acttccagct tttgattgaa agtcctaggg 540
tgattctatt tctgctg 557
```

<210> 849
<211> 525
<212> DNA
<213> Homo sapiens

<400> 849

```
ctgatggttt ggaaatgaga gaactacagt ggtgaagaga ccaggaggca gctctcagtg 60
aaaccaacat tgcggatgcc ctctcgtgagc cttctcagtc ccagcaggaa gcccacaaca 120
ctggcctccc cagcctgcct gctgacaaca cctaggctta ctttatctaa aatcagagtg 180
taccaggtct gtagcagaaa ataatcaact aaatgtcagg gacctatgag tcatttataa 240
caaaagagga agtgaaagcc attaggcaag ctatgtgctg ggctgctaac gtagcccttg 300
cagggagggg tcaggagcgc gctgcagtga gccttgggtc tcgcaggccc agccctgctg 360
caaggagcca gggcaccag gaaacatcag cacacacaca cacagggacc ctcccttcat 420
gtcacttggt ttgctgccct aaatggcttc ttgcacccta accctgata ctggaagaag 480
gcagagagac tggcccgtac agagacctgc aattctacgc aagct 525
```

<210> 850
<211> 384
<212> DNA
<213> Homo sapiens

<400> 850

```

cctcttggag cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
ccagagttac tttgacctcc tgggggagct gatgaagtcc aacgttgatg cattcaagag 120
attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttcctgaagc agatcaacag 180
ctccctgggtg gactccaaca tgctgggtgcg ctgtgtcact ctgtccctgg accgatttga 240
aaaccagggtg gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300
atcccagggtg cccacgcaga tgtccttcct ctccgcctc atcaacatca tccacgtgca 360
gacgctgacc caggagaacg tcag                                     384

```

<210> 851

<211> 423

<212> DNA

<213> Homo sapiens

<400> 851

```

ctcaggaaaa accagccact gctttacagg acaggggggtt gaagctgagc cccgcctcac 60
acccaccccc atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa 120
gaataaaaaa tgggaacata cagaactcta aaagatagac atcagaaatt gttaagttaa 180
gctttttcaa aagatcagca attccccagc gtagtcaagg gtggacactg cagctcttgg 240
catgatggga tggcgaccgg gcaagctttc ttcctcgaga tgctctgctg cttgagagct 300
attgctttgt taagatataa aaaggggttt ctttttgtcc ttctgtaagg tggacttcca 360
gcttttgatt gaaagtccta gggtgattct atttctgctg tgatttatct gctgaaagct 420
cag                                     423

```

<210> 852

<211> 413

<212> DNA

<213> Homo sapiens

<400> 852

```

ctgaaaacag tgggaggcca gatgctggca tcttccagac gggagcatag ccatggtcac 60
tctagccgat gtctcctggg gctctcaggc ggcaaggacc agatgcacca ctactgtcca 120
atcccagttt tacttagagc cacctccttt tttggggcca ttagtcctta tttcatgcca 180
gatttttact agcggctccc tgttcttcca aatcaattca tgaccgtaag taacatacca 240
tattccaaaa agagctcccc caagatgtgc cgcgatgata aaaaatttcc atcccaggat 300
cattcctgct gtatccatgg cgataatggc tttcaggcca ttccctgctg tgaacgtgaa 360
catcggaagg aaaataatgg caagcctccc ttctgggata ttagtgcaga cag          413

```

<210> 853

<211> 288

<212> DNA

<213> Homo sapiens

<400> 853

```

atctgtgagt tctgagaggc atttaggcca tgggacaggg aggatcctgt ctggccttca 60
gtttccatcc ccaggatcca cttgggtctgt gagatgctag aactcccttt caacagaatt 120
cacttgtggc tattagagct ggaggcacc ttagccactt cattccctg atgggccctg 180
actcttcccc ataatcactg accagccttg aactccctt tgcaaaccat cccagcactg 240
caccacaggc agccactcct agccttggcc tttggcatga gatggggg          288

```

<210> 854

<211> 427

<212> DNA

<213> Homo sapiens

<400> 854

```
ccaagtgaga tcagccctca agggcacatg ccaagggcag agcagcccat gtagacagct 60
tcggagggca tgggggtgta gggagttcgg ggtagctcct cattaactat ttgttgggtg 120
agtaaagggg tgaggctcag tggcaggtag ctctgcaatg acaagctgcc tcccctctat 180
gtgttttagca tatgttatta gaacgtgtcc gacaccccta ccgctgccat ttgggccctt 240
taataaagcc aagtagagaa atctggcaat aaaaggcaaa tgtaagcatg ctttctttaa 300
gacgcatcat aaatgggttt ctttaagtga atggaagagt ttgacagaga tacacctttg 360
taagaaaaca ttaagaatgc tggctgactg tgggtggctca cacctgtatt cccagcactt 420
tgggagg                                           427
```

<210> 855

<211> 311

<212> DNA

<213> Homo sapiens

<400> 855

```
ccagtattcc tggaggatat aacactgaca tcagcagggt tttcaatggc aacaattgca 60
cgagctgcca gcagaagctt ctcccagggt ctcttgagat ttatgatata gatgccatca 120
cttttccttt tatagatgta ctgttccatc tggaagtcaa gattggtgcc acctaagtgg 180
gttcctgctg caaggaactt aaggacatcc tctccttca tttgcaggac atcaagggtt 240
ccggacattg tgaaagtttc cttttaagtt acgacgggaa tccagaacaa cgccgtatgg 300
acccctctgc a                                           311
```

<210> 856

<211> 328

<212> DNA

<213> Homo sapiens

<400> 856

```
cctatggaag tttggtgctt tgctccctgt gtttgcgaaa caggatatctc gtgatttcag 60
aaaagcttga ggagattaag tctttccggg agctgacctg cctggatctt tctgttgca 120
agcttgagaa tgagcatgaa cttctagaac atctcaccaa tgaagccctg tctagtgtaa 180
ctcagctcca cctgaaggat aattgtctat ctgatgctgg ggtgcggaag atgacagcac 240
cagttcgagt gatgaaaaga ggtatccaat gcctgcatct gtgatctcag ggttacatga 300
taagtctaata aatgttagat tctcaagg                                           328
```

<210> 857

<211> 502

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 473

<223> n = A,T,C or G

<400> 857

```
ctgaccggac cggatcatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60
actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120
cggctcttcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tgttgaaaag 180
aaaaaataaa gccctcctgg ggacttggaa tcagtcggca gtcattgctg gtctccacgt 240
ggtgtgtttc gtgggaacaa ctgggcctgg gatggggctt cactgctgtg acttcctcct 300
```



```

gccaggggat ttggggcctt cttgaaagac agtccaagcc ctggataatg ctttactttc 360
tgtgttgaag cactgttggt tgtttgggta gtgactgatg taaaacgggt ttcttgtggg 420
gaggttacag aggctgactt cagagtggac ttgtgttttt tcttttttaa gangtaaggt 480
tgggctgggtg ctcacagacc tc 502

```

```

<210> 858
<211> 411
<212> DNA
<213> Homo sapiens

```

```

<400> 858
cggccgaggt ccttaatagt taagttacag ctaagaatgt catgtcttgg gttggaattt 60
tcatttttag caccgttaat gtattcactt aaatctatgt tagcaccttg tctccaggca 120
gaacaacaaa ccatccaaac atttttaaaca ttgggggaaa cacgaagggg aggggttaaag 180
acagaatcca gtactgtgga aggagtggat ttagatcaca agatccttgt cgatatacct 240
ctgcttgatg ccgaagcagc cggcccactc atccagggcg atgtacttgt cattgtccag 300
gtcacaggtc tcgaaaaagc ggggtgggtgca atgctccatg gggatgaggg gagcacgcag 360
tggagccagc tcggtgtggg agaggtaccc gtcaatgggg tgctgggtcca g 411

```

```

<210> 859
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 859
aatcacaga gggacttagt attccattaa tgcaaatgga aacattaagt tcatcatcag 60
atgataaaag gaaaaaaaaa acctgatact catctcaaaa gacgcagaga agacatctgc 120
ataaatccag tacctattat tatttcaaat ttaaaaactt cttctttttt aagagatagg 180
gtatcactat gttgccccagg ctgatcttga actcttggcc tcagatgatc ct 232

```

```

<210> 860
<211> 235
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 230
<223> n = A,T,C or G

```

```

<400> 860
tgcccagaaa ggaaggggct attgcctcct cccagccacg ttccctttcc tectetccct 60
cctgtggatt ctcccatcag ccatctgggt ctctcttaa ggccagttga agatgggtccc 120
ttacagcttc ccaagttagg ttagtgatgt gaaatgctcc tgtccctggc cctacctcct 180
tcctgtccc caccctgca taaggcagtt gttgggtttt ttccccaatn ctttt 235

```

```

<210> 861
<211> 457
<212> DNA
<213> Homo sapiens

```

```

<400> 861
ccaaaggaaa gttggaaggc aactgacaga ttctgccttt taggtacttg aactggcagg 60
aatgcatca aaagacttaa aggtaaagcg tattaccctt cgtcacttgc aacttgctat 120

```

```

tcgtggagat gaagaattgg attctctcat caaggctaca attgctggtg gtggtatggt 180
aacttctaac attttaaaaa atttcttcag aggaaggaat tttttgctgc ttttaattag 240
tttttccagg agaggaaatt taagtatatatt ttcaatgatg gaagtatggt tgtatcatga 300
aatttgatgt atatgtataa ctcaatgaat ttttacctca tacttgagct gcatgttttt 360
aaagatacct ttcaagttga acagtataca ctttcttggt ttcaaatact gtgatttttt 420
aaaaaatctt aagtagaatt aattcctgtc actcccc 457

```

```

<210> 862
<211> 561
<212> DNA
<213> Homo sapiens

```

```

<400> 862
ccaggtcatc accattggca atgagcgggt cgggtgtccg gaggcgctgt tccagccttc 60
cttcctgggt atggaatctt gcggcatcca cgagaccacc ttcaactcca tcatgaagtg 120
tgacgtggac atccgcaaag acctgtacgc caacacgggt ctgtcgggcg gcaccaccat 180
gtatccgggc attgccgaca ggatgcagaa ggagatcacc gccctggcgc ccagcaccat 240
gaagatcaag atcatcgcac cccagagcgc caagtactcg gtgtggatcg gtggctccat 300
cctggcctca ctgtccacct tccagcagat gtggattagc aagcaggagt acgacgagtc 360
gggcccctcc atcgtccacc gcaaatgctt ctaaaccggac tcagcagatg cgtagcattt 420
gctgcatggg ttaattgaga atagaaattt gccctggcga aatgcacaca cctcatgcta 480
gcctcacgaa actggaataa gccctcgaaa agaaattgtc cttgaagctt gtatctgata 540
tcagcactgg attgtagaac t 561

```

```

<210> 863
<211> 291
<212> DNA
<213> Homo sapiens

```

```

<400> 863
ccatagctgt cccacctatg gttttaaaaa cagactgtaa cttgatcttc tgaaatcctt 60
ctcgaaccac aactcgttct gttaaagaaa tcctaggaaa gaagtcctac tgatattgtc 120
gatagtctcc aaaagggtgag gaaggtaact gagttgaagg caactgggag gggctctctg 180
caaactgagg accattggaa aactgtgcag aggcaaattc tgtcaacaag ataccagctc 240
cttcaattaa agctaggaga atgccaccca ttgcggctga cccaaccatg g 291

```

```

<210> 864
<211> 265
<212> DNA
<213> Homo sapiens

```

```

<400> 864
ctgaactttt ccacctggag tccttgggaa taccggacgt gatcttcttt tatagggtcca 60
atgatgtgac ccagtcctgc agttctggga gatcaaccac catccgcgtc aggtgcagtc 120
cacagaaaac tgtccctgga ggtttgctgc tgccaggaac gtgctcagat gggacctgtg 180
atggctgcaa cttccacttc ctgtgggaga gcgcggctgc ttgcccgtc tgctcagtgg 240
ctgactacca tgctatcgtc agcag 265

```

```

<210> 865
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 865

```

```

cctccacctg cgttttgatc tagatgagca tattgtccat ctcccacagc ttgctccggt 60
tccgcaggta cgcccgcccg tgctcgcgcg tcagcgacgc gatgtcctcg cgcattctcg 120
tgatgaccgg gagcagaaac tgct                                     144

```

```

<210> 866
<211> 241
<212> DNA
<213> Homo sapiens

```

```

<400> 866
ctggctgtaa gtagcttcat agcaccagtc tttgagaatg tcaagctctc cagaaatcat 60
ggcctccagg acattgggga tgatgtcggt ctgcgactgt ttcagaaacc ggtccttggt 120
aaaggccggg tccacccgga ggatctccgt gagcacctcc gacatctctg tcttgagaga 180
caggccccc agcaagtcgg tgaccttggt cgtaagggcc cgggatgcc ggatgaacgc 240
g                                                    241

```

```

<210> 867
<211> 364
<212> DNA
<213> Homo sapiens

```

```

<400> 867
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
ttcgtatttt tagtagaaat ggggtttcac catgttggcg aggctggctc cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcaggt gtgagccacc 360
acgt                                                    364

```

```

<210> 868
<211> 472
<212> DNA
<213> Homo sapiens

```

```

<400> 868
ccaccagtc acagatgtga ctggtaaggg atctagtaac agaggatgga gttgggcaga 60
atattatcct ggatgatatg caccagcac taggatacac ctttcattag aatgaagaga 120
acagacaaag ccctcagaaa agatacaaag gcagagacat tgattagaac attatctcat 180
aacagagggt gggccattac ccaccattat tgtaaaataa ctgtaactaa ccaaaacaca 240
tacaggcttc tttaatggag ttaataaaac tatggcacat tgggaatcag gggcagaggt 300
actgttccca gacggaaaac tgggataaag ggagccatgc tgacagggcc ttattccagt 360
ctaggttggt agaaaggagc cctagcccag aaatgacagc aaatagccat aatcattatg 420
tggggctgaa ccagaggaag ccaggctgag ccaagaagct ggaagtatct tg          472

```

```

<210> 869
<211> 368
<212> DNA
<213> Homo sapiens

```

```

<400> 869
cctttcttgt aagtgaagaa aaaggaatgc agcaaagaag agttcgacat tggagtcctt 60
agttccatca ggatcccatc cgcagccttt agcatcatgt agaagcaaac tgcacctatg 120
gctgagatag gtgcaatgac ctacaagatt ttgtgttttc tagctgtcca ggaaaagcca 180

```

```
tcttcagtct tgctgacagt caaagagcaa gtgaaacccat ttccagccta aactacataa 240
aagcagccga accaatgatt aaagacctct aaggctccat aatcatcatt aaatatgccc 300
aaactcattg tgacttttta ttttatatac aggattaaaa tcaacattaa atcatcttat 360
ttacatgg                                     368
```

```
<210> 870
<211> 411
<212> DNA
<213> Homo sapiens
```

```
<400> 870
ggcgtgtcct tggacttaga gagtggggac gtccggcttc ggagcgggag tgttcgttgt 60
gccagcgact aaaaagagaa ttaaataatgg gtgatgttga gaaaggcaag aagattttta 120
ttatgaagtg ttcccagtgc cacaccgttg aaaaggagg caagcacaag actgggcca 180
atctccatgg tctctttggg cgggagacag gtcaggcccc tggatactct tacacagccg 240
ccaataagaa caaaggcatc atctggggag aggatacact gatggagtat ttggagaatc 300
ccaagaagta catccctgga acaaaaatga tctttgtcgg cattaagaag aaggaagaaa 360
gggcagactt aatagcttat ctcaaaaaag ctactaatga gtaataattg g 411
```

```
<210> 871
<211> 385
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 13, 14, 15, 27, 108, 113, 159, 199, 215, 221, 229, 245, 258,
260, 277, 284, 293, 309, 311, 325, 339, 350, 374, 377
<223> n = A,T,C or G
```

```
<400> 871
tttttttttt ttnnnttttt ttttttnaaa gattcacttt atttattcat tctcctccaa 60
cattagcata attaaagcca aggaggagga ggggggggtga ggtgaaanat gancctggagg 120
accgcaatag gggtaggtcc cctgtggaaa aagggtcana ggccaaagga tgggaggggg 180
tcaggctgga actgagganc aggtgggggc acttntccct ntaacactnt cccctgttga 240
agctntttgt gacgggcnan ctcaggccct gatgggngac ttencaggcg tanactttgt 300
gtttctcgna ntctgctttg ctcanegtea ggggtgctgnt gaggctgtan ggtgctgtcc 360
ttgctgtcct gctntgngac actct                                     385
```

```
<210> 872
<211> 184
<212> DNA
<213> Homo sapiens
```

```
<220>
<221> misc_feature
<222> 17
<223> n = A,T,C or G
```

```
<400> 872
cttccttcgg tcttttantat ttttgattgt tatgtaaaac tcgcttttat tttaatatgt 60
atgtcagtat ttcaactgct gtaaaattat aaacttttat acttgggtaa gtcccccagg 120
ggcgagttcc tcgctctggg atgcaggcat gcttctcacc gtgcagagct gcacttggcc 180
tcag                                     184
```

<210> 873
 <211> 397
 <212> DNA
 <213> Homo sapiens

<400> 873
 ctgtgggctc tgaatggcgt ccctttggct atccacgccg ccggcgacca ctgaattctg 60
 tggttctaca acaggggtctg gctgaccgaa ttgtcagaga cgtccaggaa ttcacgata 120
 accccaagtg gtacactgac agaggcattc cttacagacg tggctacctg ctttatgggc 180
 cccctggttg cggaaagagc agttttatca cagccctggc tggggaactg gagcacagca 240
 tctgcctgct gagcctcacg gactccagcc tctctgatga ccgactcaac cacctgctga 300
 gcgtggcccc gcagcagagc ctgggtactcc tggaggatgt ggatgctgct tttctcagtc 360
 gagacttggc tgtggagaac ccagtaaagt accaagg 397

<210> 874
 <211> 156
 <212> DNA
 <213> Homo sapiens

<400> 874
 ccagaagaac actatgccat gggtgcactg aattttgtgc ctactctagg gcaaacagaa 60
 ttacaatcga aggagttcct atctatctgt aaagaagaga acatgaaatt ctggttggcag 120
 aagcagcatt ttgaagaaat aaaaggttca ctgcag 156

<210> 875
 <211> 512
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 504
 <223> n = A,T,C or G

<400> 875
 ccagcatagc gaaaacttgt ctctactaaa aatacaaaaa ttagtcaggc atggtggtgc 60
 acgtctgtaa taccagcttc tcaggaggct gaggcacgag gatcacttga acccaggagg 120
 aggagggttg agtgagctga gatcatgcc a gggcaacaga atgagacttt gtttaaaaaa 180
 aaaaaaagtg acttgattta agggaaaaaa tgactggcta tattcagtca gatatggcaa 240
 agagtctcaa ggtgttaaat tgaatgatta aggtcttggg ggggggtgtcc cctatcagac 300
 tacagggtgt tagaggcaca gaaaaagggt cagttgggtt cttaatgtga aatgatgaga 360
 agcacaactc cagtgtgtct ctttgtgtag aatgtcagca gacacccct gctagatgtg 420
 ctggatcatg ggaaagcatt tccatttgtt aatagattgt tcagaagttt taatttatga 480
 tgggtgtggt ggctcatgcc tgtngtccca gc 512

<210> 876
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 876
 cctgtgccgg gccccagggc tggcagccac cagctcctct tccaggcatg ggggacaccc 60
 tgacaggatc cggaagtctc catttaccca aaaatgcaag agccatgatc agtcatggcg 120

acactgcagg cggtactgag tgaccatgtc cagtccggct ccgtccctcc cacacggggg 180
acaagcttct ccgaggagg 199

<210> 877
<211> 486
<212> DNA
<213> Homo sapiens

<400> 877
cgcggtgtgct gctcccttct gccaggagcc cactgctttt gcacacaagc tgcatttttgc 60
gcattgactc aggtcccagt tgctcttcat atctccgtga atgattggag tgcaaagata 120
ctggttctgag cgcttcccgt tttctgaaag ccatgtctct caggcatgcc tcgcttagtt 180
ggcgatgggg ttggttgact gttttcgctt ttttcttctt ctcttttctt cttcttcttc 240
tttttttttc ttttctttt ctccccctcc caacgccact gacaagaaag cactaaagat 300
gcaggttgtg cgatcacccct ataacataag gaaaagaaca ggagagggtta atttgaacgt 360
gtaggctagt ggtagaggga gatggaggtc tggggaaaga gtctgtcagg tagacatctc 420
ttttaacatg tcccagttatt cggttcacca gtatctctgc acctcactac tacccttcac 480
tccttg 486

<210> 878
<211> 363
<212> DNA
<213> Homo sapiens

<400> 878
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatattat 60
ttactgagat ggagtcttgc tctgtcaccc aggcctggagt gcagtgggtc aatctcggct 120
cactgcaacc tctgcctcct gggctgcagt gattctcctg cggttcaagta attctcctgc 180
ctcggccttc tgagtagttg ggattacagg catatgccac cacacttggc taatttttgt 240
atttttagta gaaatggggg ttcacatgt tggcgaggct ggtctcgaac tcctgacctc 300
aaggatcctc ctgcctcggc ctccctaaggt gctgggattg cagggtgtgag ccaccacgtc 360
tgg 363

<210> 879
<211> 365
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 357
<223> n = A,T,C or G

<400> 879
gcccattgcca gcgtgtggtc agcacgcaca acttgtggct gctgtccttc ctgaggagggt 60
ggaatgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgtgc 120
ggaatctaca accccatgat gcgggtctct accagtgcc gagcctccat ggcagtgagg 180
ctgacaccct caggaaggtc ctggtggagg tgctggcaga cccctggat caccggaatg 240
ctggagatct ctggttcccc ggggagtcct agagcttcga ggatgcccat atggagcaca 300
gcctctccag gagcctcttg gaaggagaaa tcccttccc acccacttec atccttntcc 360
tcctg 365

<210> 880
<211> 431

<212> DNA
<213> Homo sapiens

<400> 880

```
ccatctcccc tcaccccaac ctggataaaa tgttacacta cccactaata taaccactga 60
cacacaaacc aagctccttc cagtttaaca ttgaacatca atctacattt ccagtgaatg 120
agctaaactt atgagcaggc cattcaactt ttcatagata atttagtgct cagaaatggg 180
tgattccatt agcctgccct atagctcagg tggcccaaga tggagcctat catcttcctt 240
ggggtgtttg gtgtttccaa gtaggagcat aaaaaggata ccgtccccta cccaccacc 300
ccatcccaca taccctcact ggcattccagg agaccagcag caggctcaag accccaaatg 360
ttgggcacca caaataatgt gatatgtgcc aggagcacgg ggggtagggg tgaaagagaa 420
aaacaataag g                                     431
```

<210> 881
<211> 335
<212> DNA
<213> Homo sapiens

<400> 881

```
ccacagaggt ggtattacaa aatatacaaa gtgggtttctt tctttacatt tcatagaaga 60
agcctgcctc atttccaaat gagagcacta gaagcacaaa tcatgcagac catttactat 120
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180
ttgggaattg atatctacaa gggggagggt caggggagga ctgtctgata tcctgacttg 240
ctgggatggg ggagaagctg ggatggggga ggccccaatc ttgctgcacg gctacacca 300
ctcctccttt cctagataag gctggagcgc actgg                                     335
```

<210> 882
<211> 353
<212> DNA
<213> Homo sapiens

<400> 882

```
atgcactcaa agattggatt ttacagctac ttgcaattca aaattcagaa gaataaaaaa 60
tgggaacata cagaactcta aaagatagac atcagaaatt gttaagttaa gctttttcaa 120
aaaatcagca attccccagc gtagtcaagg gtggacactg cacgctctgg catgatggga 180
tggcgaccgg gcaagctttc ttctctgaga tgctctgctg cttgagagct attgctttgt 240
taagatatata aaagggggtt ctttttgtct ttctgtaagg tggacttcca gcttttgatt 300
gaaagtccta gggtgattct atttctgctg tgatttatct gctgaaagct cag                                     353
```

<210> 883
<211> 193
<212> DNA
<213> Homo sapiens

<400> 883

```
ctggcagaga agaatggcta cgtgactgtc agtgagatca aagccagtct taaatgggag 60
accgagcgag cgcggaagt gccggaacac ctgctgaagg aagggttggc gtggctggac 120
ttacaggccc caggggaggc ccactactgg ctgccagctc tcctcactga cctctactcc 180
caggagatta cag                                     193
```

<210> 884
<211> 461
<212> DNA
<213> Homo sapiens

<400> 884

```

ctgaagaacc ccatcagcgg gctgttagaa tatgcccagt tcgctagtca aacctgtgag 60
ttcaacatga tagagcagag tggaccaccc catgaacctc ggtaagagac caccagaggaa 120
ctgtacctag gggtggggtc aggtgctttt gctcctgacg cagtcttggc tgatttgtga 180
gcagtgctgt ttggtggcgc ctatcttttc ctccctccct tctgcctttt agctaaattc 240
cccttgattg gccctttctc cagatattga gcaggggaata tagaccttg accagccaga 300
atcttggtctg aacaaggggg aggttgactc tgttggtctg aatgaagctt ctttagaaat 360
gattggtttt ggccgtacgc ggtggctcat gctgtaatc ccagcacttt ttgaggccga 420
ggcaggcata tcacgaggtc aggagtttga gaccagcctg g 461

```

<210> 885

<211> 266

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14

<223> n = A,T,C or G

<400> 885

```

ctgcaatgct tcancacact tcagcaccga ggctgggcat gaggggtccg tcaccaccac 60
atcaaatacc cctaaagcaa tatctttgtt atgggcactt gaatgggtgct gcttcacaga 120
ggctgcacca ccagtcatga ggatctcaga ccagagctcc aggaagttct gctgttggtc 180
tgataccaag agtaccttca gattctggaa aggattttca cgggggttgcc agtccagaat 240
tctttgctcc tcaaggctgt acccag 266

```

<210> 886

<211> 402

<212> DNA

<213> Homo sapiens

<400> 886

```

cgcgtggttt ccgattgttt gatagtatth actggagaga tcatagaaac gactgtgaac 60
cgatgtcaca ccaggaaggt tgttgagcat ttcttcaaca tcttcaattg ttccctttgt 120
aacctgtagg tccccgatgt ttaatttttag agtccaatt gctgttttac acaggatcac 180
tgccatcatca ttacttttca ccttctcacg agtcttttcc agaaaagtaa gagccacatt 240
aggatcagtc atctgtctaa ctacatgaag aatgatttcc acgagggaca aagggttcac 300
cctgtgttca aattcactga taaagttttc ataaagctta atgagaccat ctccctgggc 360
aaagcacgga tcctgcacaa aatcaagcac ctgaagtgtc ag 402

```

<210> 887

<211> 342

<212> DNA

<213> Homo sapiens

<400> 887

```

ccaaagcgag agcattggca gtgaattgca gacactcttc cttgggtcatg ccttcccggg 60
aggtagcatc aacatagcca tagatgtagg agtcccggga gctccaatg gcaaaggact 120
gccttaccat catacccccc ataggcactg agtacacctg cctccttct tgagggtccc 180
agcctgcgat gatgattccc gccatcaggt cttcccggta tcggtaacac atctccttaa 240
agaggctggc tgctgtgtgg accagtggag gctcattcag ttcaatgctg tggaaaccga 300
gctggtaggt gacagcatca gctactgcct gggtatcagc ag 342

```


<210> 888
 <211> 228
 <212> DNA
 <213> Homo sapiens

<400> 888
 cgcgctcggcc aaggctgctg ctgttgctcc tccaaagaag gttggcttca aggccgtgtc 60
 cagggaccca cgagcagagg cactgggggg caagggatct ccaagggggc aagggatccc 120
 taaagggggg agctcacagg tgaggggggt tagggcccct ctagggagcg cctgaggcca 180
 tacattcaag agtgtccctg gtgaggccca gggaagagcc aggactgg 228

<210> 889
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 889
 ttggcttttc tccccttctc atcctcctct cccctttcct cactgaaggc tgtgagttgc 60
 tttcaatgtg acaacactat gatgtcattt ggaaggattt gccaggacag actgattctg 120
 agtcctgggt gccgtatgtg tatgcggcag tgttgctcagg cgatcttggt tgaagctcta 180
 tgttgccata attaccatca agtacacact gttggcaaaa ggctaacacc tgactttagg 240
 aaatgctgat ttgagaacaa aaggaaaggc cttttttcac tgcttaaagt ggggtcactt 300
 tgataccttt gcggtcattg ctgtgtctga tgagtgtaga atctctggat gtgcactgtc 360
 agtcatgtgt ccaccagg 378

<210> 890
 <211> 215
 <212> DNA
 <213> Homo sapiens

<400> 890
 ccatttttga gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60
 aatggagggg gttgaggag tcccaggagg ggcttatttg agggcctttg ccacttgctc 120
 ataggcgagc tcgatctcct catcatctgg acaggtggaa gcgaattctt cccgggcgta 180
 ggcattgctc aagtaccgat gcactccccg gaagg 215

<210> 891
 <211> 412
 <212> DNA
 <213> Homo sapiens

<400> 891
 ctgggtcaagt tcaacagagc cttggctgac cattctatgg ctgaggcacc tcggctcatt 60
 gatggcattg ttcttaccac atttgatacc attgatgaca aggtgggagc tgctatttct 120
 atgacgtaca tcacaagcaa acccatcgctc tttgtgggca ccggccagac ctactgtgac 180
 ctacgcagcc tcaatgccaa ggctgtgggtg gctgccctca tgaaggctta acgtggctct 240
 tgcccaatac caaatcgccg ctttccccac aagcccttct tcctgtatca agaattgtgt 300
 ttagagtatg tgagcaacct gtcttcagtg tagtacaag gcagagttag ggggcttgtg 360
 gctccttcca accccactcc ccgttcagca cagccgccat ctgcaaggaa gg 412

<210> 892
 <211> 472
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 85, 169, 171, 181, 201

<223> n = A,T,C or G

<400> 892

```

tttttttttt tttttttttt ttaattacta ctttttattc taatgtgaac catggccctg 60
aaagctgata acaagcttgg ctgancagag ggaactaggg gtcggcagaa aggattatgg 120
gtggaaaaca ttggctcttc cttggggagt gatgctgggg aaagggaana nagtggctca 180
nctgcaggt aaataggcta naaaagccaa ggccaaaggc tggaggggag aggacagtca 240
gcatgtccag cctgggggtct ggggtgtaggg ttatcccttc tccctgtgcc ttcccatctc 300
gtccatgagc ctaggtcttg gagccttggtg ttggaggctg ctgtgatgtc aggaacgggg 360
atctgtctag cttttggcca cttcctggga cctcacgccc ctgttgacag atggagattg 420
ggcagcaggg ccttgctgcg ttgttatctg ctgttccgac ttggtttgtc tt 472

```

<210> 893

<211> 477

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 436, 447, 449

<223> n = A,T,C or G

<400> 893

```

caaagattca ctttatttat tcattctcct ccaacattag cataattaaa gccaaaggagg 60
aggagggggg tgaggtgaaa gatgagctgg aggaccgcaa taggggtagg tcccctgtgg 120
aaaaagggtc agaggccaaa ggatgggagg gggtcaggct ggaactgagg agcagggtggg 180
ggcacttctc cctctaacac tctcccctgt tgaagctctt tgtgacgggc gagctcaggc 240
cctgatgggt gacttcgcag gcgtagactt tgtgtttctc gtagtctgct ttgctcagcg 300
tcagggtgct gctgaggctg taggtgctgt ccttgctgtc ctgctctgtg acactctcct 360
gggagttacc cgattggagg gcgttatcca ccttccactg tactttggcc tctctgggat 420
agaagttatt cagcangcac acaacanang cagtttccag atttcaactg ctcacatca 477

```

<210> 894

<211> 289

<212> DNA

<213> Homo sapiens

<400> 894

```

ctgtcttatg gctatgatga gaaatcaacc ggaggaattt ccgtgcctgg ccccatgggt 60
ccctctggtc ctggtggtct ccctggcccc cctggtgcac ctggtcccca aggcttccaa 120
ggccccctg gtgagcctgg cgagcctgga gcttcaggct ccatgggtcc ccgagggtccc 180
ccagggtccc ctggaaagaa tggagatgat ggggaagctg gaaaacctgg tcgtcctggg 240
gagcgtgggc ctctggggcc tcagagtgtc cgaggattgc ccggaacag 289

```

<210> 895

<211> 179

<212> DNA

<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14
 <223> n = A,T,C or G

<400> 895
 ctggatgggt ccanacaaag tggaatccct ggaaccttta actgagcagt gaaggtcagt 60
 gcctcagagc ctgagagatg aacaggacca gagagagagg tgggcaggca ggcacaagg 120
 tatgtcttcc tcagactcgg aacctgtctc ttctccacca tccagacgtt cagctacag 179

<210> 896
 <211> 557
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 367
 <223> n = A,T,C or G

<400> 896
 ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
 tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
 tgcacggatg gcggcagtgt tgaacccagg aggctgaacc cggcccacca cggaagatga 180
 gtgcatggca accgcctgcc ttcacgtcgc tccacttggg aaccccaagg tctgggctgt 240
 tctaggtatt gcttcacgtg ccccagcaag cccttaacaa gagggcctgg ttccctgaag 300
 aaccaatccc aggaaggggc cttgatccct ccgccttgct gagagtgaac cctcgtctct 360
 cctcacnctc cattttcattt ctgggaattg gggccttagtt tcgaaccttt ggcaaggctg 420
 ttcttactaa tgcccaagcc cctttacccc tctccctata gggttacacag gggagaccag 480
 ggcctcggca gaagactgct gccacacttc cgaatcatte tgcttgccaa atagggtcatc 540
 ttcaccagtt gactgac 557

<210> 897
 <211> 495
 <212> DNA
 <213> Homo sapiens

<400> 897
 ctggaatctc ctttgcaatc ccatctgata agattaataaa gttcctcacg gagtcccatg 60
 accgacaggc caaaggaaga gccatcacca agaagaagta tattgggtatc cgaatgatgt 120
 cactcacgtc cagcaaagcc aaagagctga aggaccggca ccgggacttc ccagacgtga 180
 tctcaggagc gtatataatt gaagtaattc ctgatacccc agcagaagct ggtggtctca 240
 aggaaaacga cgtcataatc agcatcaatg gacagtccgt ggtctccgcc aatgatgtca 300
 gcgacgtcat taaaagggaa agcaccttga acatgggtgg cgcaggggt aatgaagata 360
 tcatgatcac agtgattccc gaagaaattg acccataggc agaggcatga gctggacttc 420
 atgtttccct caaagactct cccgtggatg acggatgagg actctgggct gctggaatag 480
 gacactcaag acttt 495

<210> 898
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 898

```

ccacgactgc atgcccgcgc ccgccaggtg atacctccgc cggtgaccca ggggctctgc 60
gacacagggg gtctgcatgt ctaagtgcta gacatgctca gctttgtgga tacgcggact 120
ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180
gtaagaaagg gccagccggg agatagagga ccacgtggag aaaggggtcc accaggcccc 240
ccaggcagag atgggtgaaga tgggtcccaca ggccctcctg gtccacctgg tctcctggc 300
ccccctggtc tcgggtgggaa ctttgctgct cagtatgacg gaaaaggagt tggacttggc 360
cccggaccaa tgggcttaat gggacctaga ggcccacctg gtgcag 406

```

<210> 899

<211> 277

<212> DNA

<213> Homo sapiens

<400> 899

```

cctaagagtc attaaaaaat tctccctttg taacctcagt gctggggact gaggcgagcc 60
ccctcaggtc gctggagtgc accagtcttg gggaagaggt gcaggagaag ctgtgttttt 120
tatctccaca cgcagtatga agataaaatt acatagtatt acctagacat agacagtatt 180
acctaggtag atgcactgct cacctgcacc ctcccagct ctcatttttg ttaggtgatt 240
tgggataggg atagtgtttt ggggtatggg gggagtg 277

```

<210> 900

<211> 389

<212> DNA

<213> Homo sapiens

<400> 900

```

ctgttttgaa atatttactg ttattaaaac ttgcttcaag ggaaattgtg aatatatttc 60
catatacaag cactagtaac agtaagtggc cctgtcatcc actaactcag gcaaagtaaa 120
gaatggcatt tttgaaggac attttacctc cccatatgat ttgattggct aggactttct 180
tctgtaaagt catacctttt cacatcttaa gtttttacat ttgccatttt ccaaattctca 240
attttgggca agaacgatat agtcacaact atggggctgc tttcaaaagc ggggctccat 300
ttctactgtc agatcaatgt ggtgctgtaa ccactctttt atccctacct tcaagaacct 360
ccttatatga agcctgtctt tatccatca 389

```

<210> 901

<211> 453

<212> DNA

<213> Homo sapiens

<400> 901

```

ctggagacac ccacttgggt ggagaagatt ttgacaaccg aatgggtcaac cattttattg 60
ctgagtttaa gcgcaagcat aagaaggaca tcagtgagaa caagagagct gtaagacgcc 120
tccgtactgc ttgtgaacgt gctaagcgta ccctctcttc cagcaccag gccagtattg 180
agatcgattc tctctatgaa ggaatcgact tctatacctc cattaccgt gcccgatttg 240
aagaactgaa tgctgacctg ttccgtggca ccctggaccc agtagagaaa gcccttcgag 300
atgccaaact agacaagtca cagattcatg atattgtcct ggttggtggt tctactcgta 360
tccccagat tcagaagctt ctccaagact tcttcaatgg aaaagaactg aataagagca 420
tcaaccctga tgaagctgtt gcttatgggt cag 453

```

<210> 902

<211> 293

<212> DNA

<213> Homo sapiens

<400> 902

```
cctccggccg cccccacggc tcccatggcc tcttcctgcg ctaccgtgtg gaggccctaa 60
ccctgcgtgg catcaatagc ttccgccagt acaagtatga cctgggtggca gtgggcaagg 120
ctttggaggg catgttccgc aagctcaacc acctcctgga gcgcctgcac cagtccttct 180
tcctctactt gctccccggc ctctcccgc tctctccat tggcctctac atgcccgcctg 240
tcggcttctt gctcctgggc cttgggtctca aggctctgga actgtggatg cag 293
```

<210> 903

<211> 228

<212> DNA

<213> Homo sapiens

<400> 903

```
ctggagactc tgggccagga gaagctgaag ctggaggcgg agcttggcaa catgcagggg 60
ctgggtggagg acttcaagaa caagtatgag gatgagatca ataagcgtac agagatggag 120
aacgaatttg tcctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180
gagtctcgcc tggaagggct gaccgacgag atcaacttcc tcaggcag 228
```

<210> 904

<211> 388

<212> DNA

<213> Homo sapiens

<400> 904

```
ccaagcgctc agatcggcaa ggggcaccag tcttgatctg cccagtgcac agccccacaa 60
ccaggtcagc gatgaaggta tcttcagtct cccccgaacg atgaggcacc atgacgcccc 120
aaccattggc ctgggccagc ttgcacgcct gaagagactc ggtcacggag ccaatctggg 180
tgactttgag caggaggcag ttgcaggact tctcgttcac ggccttggcg atcctctttg 240
ggttggtcac tgtgagatca tccccacta cctggattcc tgcactggct gtgaacttct 300
gccaagctcc ccagtcatcc tgggtcaaagg gatcttcgat agacaccact gggtagtcct 360
tgatgaagga cttgtacagg tcagccag 388
```

<210> 905

<211> 272

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14

<223> n = A,T,C or G

<400> 905

```
ccggagccca cggnggtcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acagggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272
```

<210> 906

<211> 525

<212> DNA

<213> Homo sapiens

<400> 906

```

ctgtgcaccc gagtgtcctt tccccccctaa gctggcacat aggagcaaaa gttcactaac 60
cctgcagtgg aaggcaccaa ttgacaacgg ttcaaaaatc accaactacc ttttagagtg 120
ggatgagggg aaagaaatag tggtttcaga cagtgtcttct tcgggagcca gaagcactgc 180
aagttgacaa agctttgtcc ggcaatgggg tacacattca ggctggccgc tcgaaacgac 240
attggtacca gtggttatag ccaagaggtg gtgtgctaca cattaggaaa tatccctcag 300
atgccttctg caccaaggct ggttcgagct ggcacacat gggtcacgtt gcagtggagt 360
aagccagaag gctgttcacc cgaggaagtg atcacctaca ccttggaat tcaggaggat 420
gaaaatgata accttttcca cccaaaatac actggagagg atttaacctg tactgtgaaa 480
aatctcaaaa gaagcacaca gtataaattc aggctgactg cttct 525

```

<210> 907

<211> 365

<212> DNA

<213> Homo sapiens

<400> 907

```

gtaaatttta agtctttcag ttttatagat acggaaaaca agggtgactc tttaccacag 60
gatgaataaa gaactaagta atatgggaaa tgcagcaatt tctggactag ctgagccgat 120
tccttcctgt gagcacactg taagctttca agttctctgg gcaggaatta cagcacctgt 180
cccctgcaat ggccctgctg tgtgatgctc atcgcttccc ttcgtgctgg agcagtcctc 240
caggtgtcca tctcctatct ttttgttcca atcttctgtg agttccagct agcaggcttt 300
acatctgggg aaaggaaaac caggggtttt agctctgttc tctgctccca tccttcgctc 360
accag 365

```

<210> 908

<211> 608

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 594

<223> n = A,T,C or G

<400> 908

```

cggaggtgcc tcagccatgg catggatccc tctcttctc ggcgctcctg cttactgcac 60
aggacgtgcg gcctcctttg aggtgaccca gccaccttca atgtccgtgt ccccaggaca 120
gacagccaag atcacctgca ctggagatag gttgggggat gaatatgttt gctggtatca 180
acagaagcca ggccagtccc ctgtattgat aatatatttg gataacaagc ggccctcggg 240
gatccctgac cgattctctg cctacgcctc tgggaacaca gccactctga tcatcagcgg 300
ggcccaagtt atggatgagg cttattatta ctgtcaggcg tgggacggca gaactgtggt 360
gttcggcgaa gggaccaacc tgaccgtcct aggtcagccc aaggctgccc cctcgggtcac 420
tctgttcccg ccctcctctg aggagcttca agccaacaag gccacactgg tgtgtctcat 480
aagtgacttc taccggggag ccgtgacagt ggcttgggaag gcagatagca gcccgtcaa 540
ggcgggagtg gagaccacca caccctccaa acaaagcaac aacaagtacg cggncagcag 600
ctatctga 608

```

<210> 909

<211> 513

<212> DNA

<213> Homo sapiens

<400> 909

```

ctggtctcaa actcctcacc tcaactgac cgcccacctt ggccctcccaa agtgctggga 60
ttataggtgt gagccaccgt gcccaaagtt aagtattttt gatcaagtgt tttgtctttt 120
gtgcaaggca tttgtggctc tgtcatagca gaggaaaaca aaacatgcct atcaaataaa 180
tcaagtccga cctcttctca tattgagcaa cttagaggtct aggaacattt cccctacctg 240
tcattctcat ctggcatacc aggtgtacat actccttctt attctcctct gttaccaaga 300
tggtggcccc attgggtttg aggtcacgaa ctccacaaac tccaaactct tggacctcag 360
tgctgaaggc gaggtcatag cctagtgtgg agacatcatt ttccagcaga taaaccagac 420
cttggtagaa gtggtaatct tcactctcca tatctgtata tctgactgac ttgccaaga 480
tgtgtttgta aaaggatcga gtaaagtagc act 513

```

<210> 910

<211> 272

<212> DNA

<213> Homo sapiens

<400> 910

```

ccggagccca cgggtggcat ggctgccaga gcgctctgta tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtag gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acaggggtga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272

```

<210> 911

<211> 263

<212> DNA

<213> Homo sapiens

<400> 911

```

cctgcaggta caaattgacc aggtctgtga cggctgcctc cacgtcgggtg gaataattct 60
gacgaatctg ggagctcatg gttgggtggc aagaaggagc taaccacaaa aacgggtgctg 120
gcaggcccca gaagcaggag atggccgaga agatgggtccc ggaggttgca agcggagagg 180
aaatcggagg gcggctcggag gctggaagag agtccccgga tctgttccgt ccaaactctg 240
ttgaagcaag agacagaccc gcg 263

```

<210> 912

<211> 470

<212> DNA

<213> Homo sapiens

<400> 912

```

ctgtgagcac cagcccaacc ctacctcttt aaaaagaaaa aacacaagtc cactctgaag 60
tcagcctctg taacctcccc acaagaaaac cgttttacat cagtcactaa ccaacaacc 120
aacagtgtct caacacagaa agtaaagcat tatccagggc ttggactgtc tttcaagaaa 180
gccccaaatc ccctggcagg aggaagtcac agcagtgaag ccccatccca ggcccagttg 240
ttcccacgaa acacaccacg tggagaccca gcatgactgc cgactgattc caagtcccca 300
ggagggcttt attttttctt ttcaacatcc tgttctgcgg cttccttggc actttttgcc 360
cgtatgccga agagccgggc gttggcacgg gccatacgga gactagcgaa ggctttgaaa 420
ttcttctctt cctcagtgat gactcgagct ttctccttct tatagacgtt 470

```

<210> 913

<211> 426

<212> DNA

<213> Homo sapiens

<400> 913

```

cctggacacc ataaggctgg tgggctttca gaattgtgtt agggggggcag gagtggcagg 60
ttcctgaatc tcggtcaata tagtaaccag caggacaaga ggtgcaggag gagcccacat 120
cagaggcttc tagggcacag ggacggcagt aggaggccac gccattcata acattggtga 180
cattgatgga gtagatcttg gcaacgtcat tgggtgtactt cctgcttgcc tcatgaaaag 240
tggtcctctg gaaggcccag gtgaggctcg tggtagtgtt ctctcaatg atgtaggtat 300
aggactgttt gcctttggaa ctttccacag tctccacagg agtggttggtc ctagaattca 360
caccaccat gaagtagagc tcacagttca cagaacagag ggtctcaaag acaaattgtga 420
ttctgg                                     426

```

<210> 914

<211> 252

<212> DNA

<213> Homo sapiens

<400> 914

```

ccaagctggg ggtgcgcaca tgtggaagaa ctggaggccc ggtgtcatga gcagaggctg 60
taccctagat gcccggccca gtgccagcca acccaagaca ggagaaagag tttggcagtt 120
tcgcctctga ggaatacatg cctggccctc ctgtgaggtg aggcggtagg ggggaaggcg 180
caggctccga agtctgaggg cttgccggag ggggagtttc tgagcctttt gcatgggtgc 240
atgccccctg cc                                     252

```

<210> 915

<211> 234

<212> DNA

<213> Homo sapiens

<400> 915

```

ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccctcctctg 120
gattaatagt gaaaaatctg tcgaggtcag tgtgacgac gatggaatac cttatcgggc 180
tggtggcagc atcagggtct ttggcatgca ctctcccaac cacggtgcca gcag          234

```

<210> 916

<211> 366

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14, 338

<223> n = A,T,C or G

<400> 916

```

ccattcagtc tcanttcaga aaattccaga agaagaaggc tgggtctcag tcctagtggg 60
agaacccct ctagtccac ctgaaaacac caaattcaac catcatctgt caagaaatta 120
aaagaacaac accctagaga gaagtcattc acacacaatc cacacacgca tagcaaacct 180
ccaatgcatg tacagaaacc tgtgatattt atacccttgt aggaaggat agacaatgga 240
attgtgagta gcttaatctc tatgtttctc tccattttca ttctcctgc aactattttc 300
cttgatgttg taataaaatg aagttacgat gagtgatnaa aaaaaaaaaa aaaaaaaaaa 360
aaaaaa                                     366

```

<210> 917

<211> 492

<212> DNA
<213> Homo sapiens

<400> 917

```
ggcacagcga gggcagcatc tggaggagct ctgcagcctc cacacctacc acgacctccc 60
agggctgagc tcaggaaaaa ccagccactg ctttacagga caggggggtg aagctgagcc 120
ccgcctcaca cccaccccca tgcactcaaa gattggattt tacagctact tgcaattcaa 180
aattcagaag aataaaaaat gggaacatac agaactctaa aagatagaca tcagaaattg 240
ttaagttaag ctttttcaaa aaatcagcaa ttccccagcg tagtcaaggg tggacactgc 300
acgctctggc atgatgggat ggcgaccggg caagctttct tcctcgagat gctctgctgc 360
ttgagagcta ttgctttggt aagatataaa aaggggtttc tttttgtctt tctgtaagg 420
ggtcttccag cttttgattg aaagtcctag ggtgattcta tttctgctgt gatttatctg 480
ctgaaagctc ag                                     492
```

<210> 918
<211> 557
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 527
<223> n = A,T,C or G

<400> 918

```
ctgctcctgg gtaggcgtgc gggccatata gtaggggtag gatactagcc gctcgccgcc 60
gttcagattt gctcccagca cgaaggggtt cttctccatc caggcaatga tggcccggac 120
ctccgtggat accgtggcat ctggcgaaag gtagcgttca gggatgggca agttattgtt 180
ggggaccggt taggggaccc atttctctct ctcagctccc cagagcacag agttgagatc 240
cgggaaatct tcaaagatgt caaagccctc ctcagtccac agtcccagcg cccagttccc 300
aaactctgag cccatctgcy ctgccacctc gtagccatca gggttcagtg agggcaccag 360
gtggatgcgt gtgtcctgca ccaggctgcy cacacgtggg ttcccatcgc ggtactctcg 420
gcacagggtac tgcattgagca gcagcaacag ctctcggccc agcacctcgt tgccatggat 480
cccagcagtg tagcgggaact cgggctcccc cagttcatgc tcccanggt tgtctgagat 540
ctccatggca tagatct                                     557
```

<210> 919
<211> 407
<212> DNA
<213> Homo sapiens

<400> 919

```
ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
ggagacgatg tcatcatcat cggggtcttt aagggggaga gtgaccacag ctaccagcaa 180
taccaggatg ccgctaacia cctgagagaa gattacaaat ttcaccacac tttcatcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaga 300
ttccagtcct agtatgagcc ccggagccac atgatggacg tccagggtc caccaggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tgggttg 407
```

<210> 920
<211> 340
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14, 15, 304, 318, 319, 325
 <223> n = A,T,C or G

<400> 920
 cctcttgggc agcnnagggc cctgcctctg tttcatgatg catgggtcat ttgtcttggg 60
 tgtcctatcc catatggaga agaaaggggc tctaagttct ggctcttctt tctttggggg 120
 tctctgtacc tgaggaaacc aggccctggg tgactttgca gatctgctca ccctcgggtga 180
 gcaacagtgt cagccatgca agcaggacag aatgggtgact ggggtgccctt ggtgagctgt 240
 gtatttccta ggaggtagaa aactgtggga aactgtggct aataaaaact aagtgtgagc 300
 gtcnaaaaaa aaaaaaanna aaaanaaaaa aagcttgtac 340

<210> 921
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 921
 ggaaaaataa ttttattcct caaatgatca gcacattcag aagcaggaca gaggagctct 60
 gatgacatct ctggggggact caaagcgggc ctcatcttct ggtattttcc cagggtgattc 120
 tcttccaacc tgtgagtcct gctctctttc ctcccatctg aagtttgaga catcctctgc 180
 cacaaggaaa gccaccaata ccagcccaaa gageccaccag agaggaacca aaccacatgc 240
 atcaagttat aggaaggatg caagaaggga aattaggaag gaaagggagg agtttagttg 300
 gcattctggg gcatgctaac atgagggcga tgggtctctc ccaagtcgct ggacatatcc 360
 cttttctttc caggtgctcc aactccaatt gcagtttggg ggaacgtgtg aaacttgttg 420
 aagtccctgcg tgtatgtgcc cagcatgcaa gtactcagat taccgcaccg cttagatctg 480
 gggctgtcca ggctggagcc ctctctctct tgctcctgct ccagctcact ggccttcac 540
 tgcacatagt cctgcaccag tgcagccagc a 571

<210> 922
 <211> 262
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 7, 12, 125, 198, 208, 214, 231, 253
 <223> n = A,T,C or G

<400> 922
 gcccaanaca tncaggtcac agcagattcg ggcacgtgtg gaagaagggt ggatgatgtc 60
 atccacaaac cctcgccactg ctgcagggaa aggggttgga aacttctcga tgtactctgc 120
 ctgancagct tccacattct catgcccttt gaagatgatc tccacagcgc cttttgctcc 180
 catgactgca atctctgngg tggggccangc atanttggta tcaccacaaa ngtgcttaga 240
 gctcatgaca tcntaggcac ct 262

<210> 923
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 923

```

ccactgggac tttggcttcc tgatgccgat tgtggatttc tgctgcaaag acagtgatgt 60
tgagccaggc tgtttcctct ctatccagag gttttgtagt ttttaataaaa ccaccctctg 120
gattaatagt gaaaaatctg tcgaggtcag tgtgacgac gatggaatac cttatcgggc 180
tgttggcagc atcaggggtct ttggcatgca ctctcccaac cacggtgcca gcag 234

```

```

<210> 924
<211> 152
<212> DNA
<213> Homo sapiens

```

```

<400> 924
ccaggattga caggccatcc attcacagcc aggagatgct gggccagttc ctccaagagg 60
tctccgtcat ggcagtgatg aaaacctaac aggggtggccc cctgtgccag ctcagggtgac 120
tgagagcccga gggcctgaca ggttcccagc ag 152

```

```

<210> 925
<211> 400
<212> DNA
<213> Homo sapiens

```

```

<400> 925
caatatcatg ccaaggaccc aaacaacctc ttcattggtgc gcttggcaca gggcctgaca 60
catttaggga agggcacccct taccctctgc ccctaccaca gcgaccggca gcttatgagc 120
caggtggccg tggctggact gctcactgtg cttgtctctt tcctggatgt tcgaaacatt 180
attctaggca aatcacacta tgtattgtat gggctggtgg ctgccatgca gccccgaatg 240
ctggttacgt ttgatgagga gctgcggcca ttgccagtgt ctgtccgtgt gggccaggca 300
gtggatgtgg tgggccaggc tggcaagccg aagactatca cagggttcca gacgcataca 360
accccagtgt tgttggccca cggggaacgg gcagaattgg 400

```

```

<210> 926
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<400> 926
ccacgtccct attttagaaa tgagaggagt gactgcacac aggaaaaatg ccacttttag 60
caattcaaag tggaaaaaact tcttttatat aaaaattatc ccaactccca ccccttggct 120
ctcagtgttg catctcccac agaggtaaag ttgtgccatt tccccacggc tttaaacaaa 180
gcaaaacaaa accaccaatc ctaataaccc ccctccctgc cccgtctcca cgctgtgcgg 240
agagggtctc agcccctcag tcggacttct ccttctcctt catgtgcaag aagacgatgc 300
tgaagatgaa gagccccagc atcatggaga aggcgctggc gtagtagggg taggccgagg 360
ggatgaagcg ctcatactgc gtgtgctgga gtggccgcac ggatacctga gtggaagagt 420
acaggtgtgt gtagcctagc cggttgtaat ccactttaaa ctggaataca ccatacacgt 480
cgggcaactt gaactgaaca ctgtatttgc cacctttctt c 521

```

```

<210> 927
<211> 520
<212> DNA
<213> Homo sapiens

```

```

<400> 927
ccaggctagt ctcgaaactc tgacctcagg tgatctgcct gcctcggcct cccaaagtgc 60
tgaggattacc ggcgtgagcc accatgcctg gccttacatt ttttaaaatg agggaacaaa 120
tgaataaatg accaccatgt taggggctgg ctctgaacag aattgtaaag tgggccaagc 180

```

```

ttgctctcaa ggtcacctta agcccacggt tgctgtgtcc tgccctctca gggtcatttc 240
ccagcctcca ggcacctgtt cacagaggct gcatctggcc tcgcctccac cctccatcc 300
taaggtgctc cgctgactta gaacaggaca gtcagggaga gaatgtgtct caggaggggtg 360
gagtcagatg atcacggcct tcctggcatc tgaggggata cagcttcggg tagcaaagtg 420
tgattttccc tgagccccag gaaagcttgg ccttggtcag aatacattga accctgaggg 480
ccagagagtc cctggggcaa gctctgagag ggaggacctc 520

```

<210> 928

<211> 492

<212> DNA

<213> Homo sapiens

<400> 928

```

ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatac ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccggctc ccatcccatc 180
atgccagagc gtgcagtgct cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300
ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctctgagtg catgggggtg 360
gggtgtgaggc ggggctcagc ttcaaccccc tgtcctgtaa agcagtggct ggtttttcct 420
gagcccagcc ctgggaggtc gtggtagggt tggaggctgc agagctctc cagatgctgc 480
cctcgctgtg cc 492

```

<210> 929

<211> 209

<212> DNA

<213> Homo sapiens

<400> 929

```

ttttttcacc atctaacaaa ggcactttat tgcattacca ttcacaatta acagtcaaga 60
acaaataata ataacaaata aaataacttt taagaggaca aggcattaga aataaaaaag 120
gacactaata acatttgtaa aagcttgtac tggatgtggt tgccccatt tgtgtgtgtg 180
gttgtgtgtg tgtggttgtg tgttggtgg 209

```

<210> 930

<211> 617

<212> DNA

<213> Homo sapiens

<400> 930

```

cgcgctccttt aacaagcccc gttctcaaaa ggctgggggt atttatataa gaacttattc 60
caaagtgact ctaagatcca tggtcccaag atctagtacg ggctattcat ggttctgagg 120
catgtccagc atgcaggcaa acttatctgt tcaaattgag gtaaaacaga caaaaaacac 180
ttaatattaa cagaagctac ataattaaaa ctaaccttct gctgcttatt taagctaatg 240
atgtattctt accaaacaga gaccctcaag tcaatcattt cttttgattt tagttaccac 300
ccccaaatta agcctcttct ttcaaagcca ttattagtta aaaaaaagtt ttaaaatgaa 360
gaaaaatatt ttttccagaa cttgtatttt gtaattagtg tgatgcaatt tctttttatt 420
tttcaaactt agaaataact catgtatggg actatttggg atttttttca gataccaagg 480
aataccgaca ggattcataa ataggatttt ctgacactgg caggaaagtc tgctaacggt 540
tacaaaatac caaagactct tctttcaagc ttcaaagatg gctgagaatt aacagttatg 600
attagttttt cagtaca 617

```

<210> 931

<211> 521

<212> DNA
<213> Homo sapiens

<400> 931
ccaacaaaat tggatgaacac atggaagaac atggcatcaa gtttataaga cagttcgtac 60
caattaaagt tgaacaaatt gaagcaggga caccaggccg actcagagta gtagctcagt 120
ccaccaatag tgaggaaatc attgaaggag aatataatac ggtgatgctg gcaataggaa 180
gagatgcttg cacaagaaaa attggccttag aaaccgtagg ggtgaagata aatgaaaaga 240
ctggaaaaat acctgtcaca gatgaagaac agaccaatgt gccttacatc tatgccattg 300
gcgatatatt ggaggataag gtggagctca ccccgattgc aatccaggca ggaagattgc 360
tggctcagag gctctatgca ggttccactg tcaagtgtga ctatgaaaat gttccaacca 420
ctgtattttac tccttttgaa tatgggtgctt gtggcctttc tgaggagaaa gctgtggaga 480
agtttgggga agaaaatatt gaggtttacc atagttactt t 521

<210> 932
<211> 197
<212> DNA
<213> Homo sapiens

<400> 932
ccttgtgacc aattacatat gattaaaatt acttcccaca ttcacatcca cagtactcgt 60
ccaccattta acatctcaac caaaacgtta cacatgtgaa acaatcacta acaggcaaaa 120
atactaaacc tgtatatattg gtattgcaaa tacacttatg catgagcaag caagggattc 180
acagtgagaa tctacag 197

<210> 933
<211> 610
<212> DNA
<213> Homo sapiens

<400> 933
cctcatthta acaatatctt ttttttgctc ttctgcttcc aaaccttatt tgccaatgta 60
atgcctttat ataaagttct tatgatgaat gaaaaacttt caagtgtgtg tgccctatta 120
aatgcattat ttattaattt aacttctagt actctcgata aagagccagt gaaatgagtt 180
attgagttcc agggaaaaaa atgagaacat aattttgaat ttattatctc tctatacaca 240
cacagttcat aattggatta catataataa taatatcaac aagtctatca gtatcgaagt 300
tgataactgg taatttctca tgtgaggctc ttgtgtcaca gtcagcatag atttctggag 360
catttgtctg ttgatctttt ggtggcctca aacctcatta agtgggtgtg gagatgctgt 420
ttctgccatg tgagaatgtg atggcagaat taacacaacc ccaccagggg tacaacagag 480
cactttacat ccaaaggcag agagggacac agcaatgcag aattccagca cacttaagag 540
gagcaccatg ccatccagac ccattaagat ggacatagtc ccatgacaat tatttgagtt 600
gccatagtag 610

<210> 934
<211> 384
<212> DNA
<213> Homo sapiens

<400> 934
ctgctaccag gggagcgaga gctgactatc ccagcctcgg ctaatgtatt ctacgccatg 60
gatggagctt cacacgattt cctcctgcgg cagcggcgaa ggtcctctac tgctacacct 120
ggcgtcacca gtggcccgctc tgccctcagga actcctctga gtgagggagg agggggctcc 180
tttcccagga tcaaggccac agggaggaag attgcacggg cactgttctg aggaggaagc 240
cccgttggct tacagaagtc atggtgttca taccagatgt gggtagccat cctgaatggg 300

ggcaattata tcacattgag acagaaattc agaaagggag ccagccaccc tggggcagtg 360
aagtgccact ggtttaccag gcag 384

<210> 935
<211> 125
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 1, 23, 24
<223> n = A,T,C or G

<400> 935
nttaaaattc atggaagtaa tannacagta ataaaatatg gatactatga aaactgacac 60
acagaaaaac ataaccataa aatattgttc caggatacag atattaatta agagtgactt 120
cgтта 125

<210> 936
<211> 546
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 519
<223> n = A,T,C or G

<400> 936
gccccatgcca gcgtgtggtc agcacgcaca acttgtggct gctgtccttc ctgaggaggt 60
ggaatgggag cacagccatc acagacgata ccctgggtgg cactctcacc attacgtgc 120
ggaatctaca accccatgat gcgggtctct accagtgcc gagcctccat ggcagtgagg 180
ctgacaccct caggaaggtc ctggtggagg tgctggcagg ttctcccgcc aaggttctcc 240
ccctgcctcg aggaggaagg ggctggaggc tcatggctct gcctcccata gacccctgg 300
atcacgggga tgctggagat ctctgggtcc ccggggagtc tgagagcttc gaggatgcc 360
atgtggagca cagcatctcc aggagcctct tggaaggaga aatccccttc ccacccactt 420
ccatccttct cctcctggcc tgcattcttc tcatcaagat tctagcagcc agcgccctct 480
gggctgcagc ctggcatgga cagaagccag ggacacatnc acccagtga ctggactgtg 540
gacctc 546

<210> 937
<211> 550
<212> DNA
<213> Homo sapiens

<400> 937
caccaatcaa aattcctggt ggtcctgaga ctttgggcag aatcatgaat gtcattggag 60
aacctattga tgaaagaggt cccatcaaaa ccaaacaatt tgctccatt catgctgagg 120
ctccagagtt catggaaatg agtggtgagc aggaaattct ggtgactggg atcaagggtg 180
tcgatctgct agctccctat gccaaaggtg gcaaaatttg gctttttggg ggtgctggag 240
ttggcaagac tgtactgac atggagttaa tcaacaatgt cgccaaagcc catggtgggt 300
actctgtggt tgctgggtgt ggtgagagga ccctgaagg caatgattta taccatgaaa 360
tgattgaatc tgggtgttat aacttaaaag atgccacct taaggtagcg ctggtatatg 420
gtcaaatgaa tgaaccacct ggtgctcgtg cccgggtagc tctgactggg ctgactgtgg 480

ctgaatactt cagagaccaa gaaggtcaag atgtactgct atttattgat aacatctttc 540
gcttcaccca 550

<210> 938
<211> 192
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 28, 63, 148, 153
<223> n = A,T,C or G

<400> 938
tttttttttt tttttttttt tttttttngg aaaaagccca aaaggcactt tattggaggt 60
ctntgcctcc attcacagga aaaaggagct gggagcccca tcctaagggt ccagcatca 120
gccactgga gggcctggaa cagtccanca ctntgtggga aaggagtggg gaggggaatg 180
ttttaaaaaa aa 192

<210> 939
<211> 337
<212> DNA
<213> Homo sapiens

<400> 939
ccaaaatatt ggaacacaca gaaccaaacc aggtgtgttc tacacctgca tgagtgaagg 60
atttccacgt agacacctag gaagagcccg catgccctag actcactcca gaggaaggat 120
tgatttgcaa ccagaaaggg agctgaaaac cacggagctc catggctctt cattcaaaag 180
ggaaaataat gattccacgt tgcttttttag agttcaaate aacatctttc tggataaatc 240
tatttttttaa caatcttttt attatttgta aaagatatataa aaacaactcc catcagtagc 300
aatacaagggt tatacatttt aaccagattt tctcagg 337

<210> 940
<211> 362
<212> DNA
<213> Homo sapiens

<400> 940
cctgtccaaa cgtgcgcacc aggaccgagg ggagctccct cccaacacct gctaggaatt 60
gccaactttt aaatggatgg gggttttttat gggttgaacc tctgttaata cttttgtaca 120
ctctcactac agtttatatt tttataggct attttctcaa ggtgtttcta gattccacat 180
atctatttta tataacaagt tattatgtta tgtgtgtgac tcccttgtgt gtatctgtgc 240
cagcctcagc ctccgagttg cttttccctc tggccctgac tctcactgac tcaccgatgt 300
ggtgtgcagg ccacttctt accccagata gcctcggggc ctgcctgtag tcatgccgac 360
ag 362

<210> 941
<211> 216
<212> DNA
<213> Homo sapiens

<400> 941
ctggacatct ttccagcccg ggatacctac catcctatga gcgagtaccc cacctaccac 60
accatgggc gctatgtgcc cctagcagt accgatcgta gccctatga gaaggtttct 120

gcaggtaatg gtggcagcag cctctcttac acaaaccag cagtggcagc cacttctgcc 180
aacttgtagg ggcatgtcgc ccgctgagct gagtgg 216

<210> 942
<211> 324
<212> DNA
<213> Homo sapiens

<400> 942
ctgattggct tcaggccccc tacctctata aactctacca gcattactac ttcctggaag 60
gtcaaattgc catcctatat gtctgtggcc ttgcctctac agtcctcttt ggccctagtgg 120
cctcctccct tgtggattgg ctgggtcgca agaattcttg tgtcctcttc tccctgactt 180
actcactatg ctacttaacc aaactctctc aagactactt tgtgctgcta gtggggcgag 240
cacttggtgg gctgtccaca gccctgctct tctcagcctt cgaggccagg gagcctcaaa 300
tcttcagtct ctcagagacc acag 324

<210> 943
<211> 597
<212> DNA
<213> Homo sapiens

<400> 943
ctgacaaaat tcctgggtta ctaggtgtct ttcagaagct gattgcatcc aaagcaaagt 60
accaccaagg tttttatctt ctaaacagta taatagagca catgcctcct gaatcagttg 120
accaatatag gaaacaaatc ttcattctgc tattccagag acttcagaat tccaaaacaa 180
ccaagtttat caagagtttt ttagtcttta ttaatttgta ttgcataaaa tatggggcac 240
tagcactaca agaaatatct gatggtatac aaccaaataat gtttggaatg gttttggaaa 300
aaattattat tcctgaaatt cagaaggtat ctggaaatgt agagaaaaag atctgtgcgg 360
ttggcataac caaattacta acagaatgtc ccccaatgat ggacactgag tataccaaac 420
tgtggactcc attattacag tctttgattg gtctttttga gttacccgaa gatgatacca 480
ttcctgatga ggaacatttt attgacatag aagatacacc aggatatcag actgccttct 540
cacagttggc atttgctggg aaaaaaagag catgatcctg taggtcaaatt ggtgaat 597

<210> 944
<211> 359
<212> DNA
<213> Homo sapiens

<400> 944
ctggaagagg aaaaggagat actgcagaaa gaactctctc aacttcaagc tgcacaggag 60
aagcagaaaa caggtactgt tatggatacc aaggtcgatg aattaacaac tgagatcaaa 120
gaactgaaag aaactcttga agaaaaaacc aaggaggcag atgaatactt ggataagtac 180
tgttccttgc ttataagcca tgaaaagtta gagaaagcta aagagatggt agagacacaa 240
gtggcccatc tgtgttcaca gcaatctaaa caagattccc gaggtctctc tttgctaggt 300
ccagttgttc caggaccatc tccaatccct tctgttactg aaaagaggtt atcatctgg 359

<210> 945
<211> 367
<212> DNA
<213> Homo sapiens

<400> 945
caggatctga agtttgggggt cgagcaggat gttgatatgg tgtttgcgtc attcatccgc 60
aaggcatctg atgtccatga agtttaggaag gtccctgggag agaagggaag gaacatcaag 120


```

attatcagca aaatcgggaa tcatgagggg gttcggaggt ttgatgaaat cctggaggcc 180
agtgatggga tcatggtggc tcgtggtgat ctaggcattg agattcctgc agagaagggtc 240
ttccttgctc agaagatgat gattggacgg tgcaaccgag ctgggaagcc tgtcatctgt 300
gctactcaga tgctggagag catgatcaag aagccccgcc ccactcgggc tgaaggcagt 360
gatgtgg                                     367

```

```

<210> 946
<211> 335
<212> DNA
<213> Homo sapiens

```

```

<400> 946
ccacagaggt ggtattacaa aatatacaaa gtggtttctt tctttacatt tcatagaaga 60
agcctgcctc atttccaaat gagagcacta gaagcacaaa tcatgcagac catttactat 120
ataacttatg aaaaatgctg tacagggctg tgactataga tatagagtat ttggctctgt 180
ttgggaattg atatctacaa gggggagggg caggggagga ctgtccgata tcctgacttg 240
ctgggatggg ggagaagctg ggatggggga ggccccaatc ttgctgcacg gctacacca 300
ctcctccttt cctagacaag gctggagcgc actgg                                     335

```

```

<210> 947
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 947
cctcttgagg cacatccttt actgcattgt ggacagcgag tgtaagtcaa gggatgtgct 60
ccagagttac tttgacctcc tgggggagct gatgaagttc aacgttgatg cattcaagag 120
attcaataaa tatatcaaca ccgatgcaaa gttccaggta ttcctgaagc agatcaacag 180
ctccctgggtg gactccaaca tgctggtgcg ctgtgtcact ctgtccctgg accgatttga 240
aaaccagggtg gatatgaaag ttgccgaggt actgtctgaa tgccgcctgc tcgcctacat 300
atcccagggtg cccacgcaga tgccttcct cttccgcctc atcaacatca tccacgtgca 360
gacgctgacc caggagaacg tcag                                     384

```

```

<210> 948
<211> 173
<212> DNA
<213> Homo sapiens

```

```

<400> 948
ctgtggaggg gacactgtct ttgaggcatc actggttcca caaagggtag gggaagggtct 60
tgagggacca ccccatgccc tcattaatca accagaagct tggcctggag cagcagcggg 120
gattccagta gctgtgggca tacaggatgc tagggcggcc acaaccagc cag          173

```

```

<210> 949
<211> 211
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 13, 14
<223> n = A,T,C or G

```

```

<400> 949

```

```

ccatccacgt tgnnaaacag aataaaatgg aaattcacct tgtcatctac ccgacattgg 60
ccttcctgtg ccacggcatc atgggctgcc tgtatggcct cattcttttc aaagcatttt 120
gctctgtctt caggggacat tttctctgtt tcagaaagaa actgtttcag aactgatcca 180
tcctcaaata ccagtttgtc ttgattattg g 211

```

```

<210> 950
<211> 382
<212> DNA
<213> Homo sapiens

```

```

<400> 950
cctcatcgtg agtcaggacg tggtgaaagc tgcagtggct gctgtgctct ctccagaaga 60
attcatggtc ctgttggact ctgtgcttcc tgagagtgcc catcggctga agtcaagcat 120
cgggctgata aatgaaaagg ctgcagataa gctgggatct acccagatcg tgaagatcct 180
aactcaggac actcccaggt tttttataga ccaaggccat gccaaagggtg cccaactgat 240
cgtgctggaa gtgtttccct ccagtgaagc cctccgccct ttgttcaccc tgggcatcga 300
agccagctcg gaagctcagt tttacaccaa aggtgaccaa cttataactca acttgaataa 360
catcagctct gatcggatcc ag 382

```

```

<210> 951
<211> 473
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 421, 456
<223> n = A,T,C or G

```

```

<400> 951
cctctctgcc aggcaaagga gggagctgcg gctctttgac attaaaccag agcagcagag 60
atacagcctt ttcctccctc tccatgaact ctggaaacag tacatcaggg acctgtgcag 120
tgggctcaag ccagacacgc agccacagat gattcaggcc aagctcttaa aggcagatct 180
tcacggggct attatttcag tgacaaaatc caaatgcccc tcttatgtgg gtattacagg 240
aatccttcta caggaaacaa agcacatttt caaaattatc accaaagaag accgcctgaa 300
agttatcccc aagctaaact gcgtgttcac tgtggaaacc gatggcttta tttcctacat 360
ttacggggagc aaattccagc ttcgggtcaag tgaacggtct gcgaagaagt tcaaagcgaa 420
nggaacgatt gacctgtgaa ttctttgccg tctaangcag ttgtttatga cag 473

```

```

<210> 952
<211> 312
<212> DNA
<213> Homo sapiens

```

```

<400> 952
ctgatgggtc tcatagtcct ctgggatggg gtcattgcag cggtaacgca ggttggccca 60
gatgatgttc tcctgggaga agcagaagac cccaagcgg ccaccccgca tggttgtgtc 120
caagaccacg ttgctgtcgg ccaccagctc agggccctca tagaatcgca ccctgatgta 180
gcccaacttg ggccggtgct gcaggaacca acgataggac ttcttgctct tccaaccac 240
gtttcgcggg tccttcacac gcagccgcac ctgagactct gtgtctcctg tatgccacag 300
agcgttccgc ag 312

```

```

<210> 953
<211> 397

```

<212> DNA
<213> Homo sapiens

<400> 953

```

cgcggtccact gccgaccctc ttgggtttctg aaaccaacct ttcttcctgc tctcctcttt 60
aagagcaaac  cccaacatgt ataagggtcac agcaagtggg agccaggaaa agctgtggga 120
cccctcattt  gagtcacatc catatggcat ggagaaagaa aacctctctg ccagaaggaa 180
ctgaactctg  gaagtcctaa ggaagggtcac catgatcagc agataggaaa gcattgccaa 240
gggctgtccc  tcaagagctt agttttctta gggagaccag aaagacatca gatcctgact 300
gccctgtttt  gctcaagttc tgaaatgagt ggcattgatg agagctgggt gagctgaggg 360
aaagagtcaa  ccatgtgggg tggggtagtg aggaagg                      397

```

<210> 954
<211> 304
<212> DNA
<213> Homo sapiens

<400> 954

```

cctttgtacc  gggccagcaa ctggaagggc acagtgtgga attccagggc ctgcagagtc 60
ttcttctgga  acagggcctc gtggctccag tacagggaca ggttgaactg cagctcaaag 120
agctcctcag  ggagcatcat ggggaagcgg atcttctcca ccaagccctc cacctcctca 180
tgggaggcac  gctcccccca gctccagggt tccacggcct tcagtagggc cagctcgctg 240
ggcaccgcca  ggctcgctct gggcagcagc agttggagca ggtctgtggg gacactgggc 300
cagg                      304

```

<210> 955
<211> 156
<212> DNA
<213> Homo sapiens

<400> 955

```

ctgtttcaac  tccctgccaa gaaaaatgta gatgcaattc tggaggagta tgcaaattgc 60
aagaaatcgc  agggaaatgt tgataataag gaatatgcgg tcaatgaagt tgtggcagga 120
ataaaagaat  atttcaatgt gatgttgggc actcag                      156

```

<210> 956
<211> 543
<212> DNA
<213> Homo sapiens

<400> 956

```

ctttcatctg  accatccata tccaatgttc tcatttaaac attaccagc atcattgttt 60
ataaccagaa  actctggtec ttctgtctgg tggcacttag agtcttttgt gccataatgc 120
agcagtatgg  agggaggatt ttatggagaa atggggatag tcttcatgac cacaaataaa 180
taaaggaaaa  ctaagctgca ttgtgggttc tgaaaagggt attatacttc ttaacaattc 240
tttttttcag  ggacttttct agctgtatga ctgttacttg accttctttg aaaagcattc 300
ccaaaatgct  ctatttttaga tagattaaca ttaaccaaca taattttttt tagatcgagt 360
cagcataaat  ttctaagtca gcctctagtc gtggttcate tctttcacct gcattttatt 420
tggtgtttgt  ctgaagaaag gaaagaggaa agcaaatacg aattgtacta tttgtaccaa 480
atctttggga  ttcataggca aataatttca gtgtgggtga ttattaaata gaaaaaaaaa 540
att                      543

```

<210> 957
<211> 528

<212> DNA
<213> Homo sapiens

<400> 957

```
ctgtgatcaa gatgtattaa aagaatatga aagagcatct gggttattct agaagttctg 60
tgatcaaaac atattaaaaa aaattaaagc gcatctgggt tattctagaa gttcctgggc 120
tttatacttg gatattttaca gaggaagttg aacttcaagt tctgccactc ttcaaaatgg 180
gtgacaggag aggacgtgat aggacagtta aaaaaaaatt gatagtcatt ctctgatgga 240
gtgaagcaag ctttgtcaac catcaacaaa tatgacttca ttggtcacaa gccctgcaga 300
gatccaacaa gatttgagtt ttaaatacag aacatatattc aaacagaacc agcagagtgc 360
tgatgtatga atggaattga ttgctgaagg cagagagtat aaagaatctc aagaaacttt 420
tagtgccatt ttcatttaat aagccattgg tatagcaacc taaaaacctt ggctgtgatg 480
acaccaggat gtgtttatgg aattgctgca ggagaacaca attggcag 528
```

<210> 958
<211> 451
<212> DNA
<213> Homo sapiens

<400> 958

```
ctgtctgacc atgggggacct tctgtctgaa gaggagctgg atgaatgaga ctctgggaat 60
catctacaca ggaccaaacc caacaggcgc cctggcaccg gggaggcggg tagttgtact 120
ctgcttgtac agtccttgag cccagtttac agatctggag agcaggaggc caggacaagg 180
acaaaggctg gaggatggag taggacccag gggctctgcc atcctaggca tcattcaagg 240
tcttttatga agactttaca gatgtcctct gtaagtagca tcgagagtgg agttcagctc 300
ctttctctac ttttttttgg tctgatggca catatttatt gttctgtggg ctaatcacag 360
tgtttctaaa tgtaaaaagt gcatatgttg gtgtagctag tcccgcgaca ttgagctcct 420
ctgcatgaag aactggggct cctgcatcca g 451
```

<210> 959
<211> 158
<212> DNA
<213> Homo sapiens

<400> 959

```
ccagaccaag gctgctggac ctatgggaat attcgggtgt ctgtagagga tgtgactgtc 60
ctgggtggact acacagtacg gaagttctgc atccagcagg tgggcgacat gaccaacaga 120
aagccacagc gcctcatcac tcagttccac tttaccag 158
```

<210> 960
<211> 235
<212> DNA
<213> Homo sapiens

<400> 960

```
ctgagcaggg aatccggccg gaggaaggag cagcttaccg actgcgggtg ttcaccacag 60
gccaggccct aatatgcacc cactagttta gctcagactc ctctctacat atgaatggca 120
aaggcacttt tgatatacac tgtaaaatac actgtatttt agaatcggaa tctattttct 180
aatgttcccc tcaagggtg agtggcagga aggttgagga tgcaggactt tgcag 235
```

<210> 961
<211> 375
<212> DNA
<213> Homo sapiens

<400> 961
 cctggaaaga aaagggatat gtccagcgac ttggagagag accatcgccc tcatgttagc 60
 atgccccaga atgccaacta aactcctccc tttccttctt aatttccctt cttgcatcct 120
 tcctataact tgatgcatgt ggtttggttc ctctctgggtg gctctttggg ctggtattgg 180
 tggcttttct tgtggcagag gatgtctcaa acttcagatg ggaggaaaga gagcaggact 240
 cacaggttgg aagagaatca cctgggaaaa taccagaaaa tgagggccgc tttgagtccc 300
 ccagagatgt catcagagct cctctgtcct gcttctgaat gtgctgatca tttgaggaat 360
 aaaattattt ttccc 375

<210> 962
 <211> 409
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14, 26, 73, 74, 81, 103
 <223> n = A,T,C or G

<400> 962
 ctggggaggc ccncggggcc tctcangtgg acagggtccag gcattgggtg aagctggatg 60
 aagctggggc ctngtctct nctcatcaaa tacagatcac tgngaccctg tcctcctcca 120
 tgggtgctgg ctctcgggcc ccaactgcccc tgcttctgct ttcttctctc acctcctcct 180
 cccccagctc catgtccagc tcgttgccctg cctctgaggg tgtgtaggtg gagccactga 240
 tggaaacggca gctaaagaag acgattcgtc tgagccgctt gttgtagaag aagtagttga 300
 aggaccagag gctaccatcc tccccgaagg gatctgagtc caagtctggg ttatagctgt 360
 agatgtcaca ttcagccagg cagatctcct cgtccaccgc gttccacag 409

<210> 963
 <211> 163
 <212> DNA
 <213> Homo sapiens

<400> 963
 gccatggcgt cctattttcga tgaacacgac tgcgagccgt cggaccctga gcaggagacg 60
 cgaaccaaca tgctgctgga gctcgcaagg tcaacttttca ataggatgga ctttgaagac 120
 ttgggggttg tagtagattg ggaccaccac ctgcctccac cag 163

<210> 964
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 964
 ccactggctg agttattggc ctggcaggta tagagtcgcg tgttcttctc agtgatgttg 60
 gagataaaga gctcttgtgt gtgttgctgg atgttcccat caatcagcca agaatactgt 120
 gcagggtggg tagaggctgc atggcaggag aggctgaggg tcacccttg acggtaatag 180
 gtgtatgagg gggaaatggg ggggtcgtct gggccataga ggacattcag gatgactggg 240
 tcgctgtggg caacacttaa ttcgttcttg attccacact catagggtcc tacatcattc 300
 cttgtgacac tgagtagagt gagggctcctg ttgtcattgg acag 344

<210> 965
 <211> 461

<212> DNA
<213> Homo sapiens

<400> 965
ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatac ttaacaaagc 120
aatagctctc aagcagcaga gcatctcgag gaaggaagct tgcccggctcg ccatcccatc 180
atgccagagc gtgcagtgct cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttaactt aacaatttct gatgtctatc ttttagagtt ctgtatgttc ccatttttta 300
ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catggggggtg 360
gggtgtgagc ggggctcagc ttcaaccccc tgtcctgtaa agcagtggct ggtttttctt 420
gagcccagcc ctgggaggtc gtggtaggtg tggaggctgc a 461

<210> 966
<211> 246
<212> DNA
<213> Homo sapiens

<400> 966
cctttcacag aactaccat tgagtgggtt gatgcagggt gcagccttca gtccccgagt 60
actgggttct gataaaattc cacagaatcc agcatcactg ggctcagacg gcatccactg 120
tagtaaaacta tttgtaaattg gggacatatc ttcccagcac cagtaggaca cattgatctt 180
ccgaaggccg acccatgggg ttaaggtgag cttggacatg ctctgagatg actgcattat 240
tcgcag 246

<210> 967
<211> 244
<212> DNA
<213> Homo sapiens

<400> 967
ctggagcatt ggcagggaca gtcagaaagg agacaagtga aaacgggtcag atggacacag 60
gcgaggagaga aaagacagag ggagagagac catcggggaac aatcagaggg gccgagacga 120
tcagaaaagg gtcagcccga gacaggctga gccagagttt ctagaagcag tttccaattc 180
aacggctcgc tttgaggggc aacgtgtcct aggccgaggg tgcagaagcg ctcacacact 240
cacg 244

<210> 968
<211> 436
<212> DNA
<213> Homo sapiens

<400> 968
ccaaagtctt taccctatatt aacccttgt atattttctga ctgctcactg ttcattattat 60
aggggaccag atttgtaata tagaattctc cataacatga atgaaattaa tgctgtccaa 120
gccagcatgg tggcttcata ttaagtagta acagaagtct gaacaattgg ataaatttga 180
cttccaagac agctaaactt ttcaactgca attttaaaaa ctacactaca ctgttatagt 240
taatctgaca aaaatgtcct caaagagtac tttattttat ttaaagcatc tgtttaattc 300
aacctttaat aattttgcaa agaagggtac gtgtgtatatt taatatagcc tgacctgaat 360
ttatatgttt ttagcttttag tattttaactt tttgtaacaa ataaaccttt tttaaaacaa 420
gttttaaaaa gaaaaa 436

<210> 969
<211> 383

<212> DNA
<213> Homo sapiens

<400> 969

```
ctggctccct tgtctccagg gctttggagg atcagggtag ggagggctct gtctctaagc 60
caggtgtcag gatcagaatc atgggtagaa ggtgccattc agctcacagc cgcacccaga 120
atcctttgca gccctccttc tttatttttt tccattgca ttctgggagt ccacatctgg 180
ctttctcagc cactgttcat caccaggggt tttaggagga aggcttggct cctgtcttcc 240
cagacccacc atgcctggag aggtcaggat ggaactacct cattcggcga attagcccca 300
aattgaacgc tgaatcgtgt cccatgagat caggcgccat ctgtaaagtc tcctctggaa 360
atgccaatcc atccttcccc cag 383
```

<210> 970
<211> 543
<212> DNA
<213> Homo sapiens

<400> 970

```
ctgtagcttt tgtgggactt ccactgctca ggcgtcaggc tcaggtagct gctggccgcg 60
tacttgttgt tgctttgttt ggaggggtgt gtggtctcca ctccgcctt gacggggctg 120
ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
agtgtggcct tgttggcttg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
gcagccttgg gctgacctag gacggtcagc ctggtccctc cgccgaacac cgaagtgcta 300
ctgtttgtat atgagctgca gtaataatca gcctcgtcct cagcctggag cccagagatg 360
gtcagggagg ccgtgttgcc agacttggag ccagagaagc gattagaaac ccctgagggc 420
cgatcagtga catcataaat catgagtttg ggggctttgc ctgggtgctg ttggtaccag 480
gagacatagt tataaaaacc aacgtcactg ctggttccag tgcaggagat ggtgatcgac 540
tgt 543
```

<210> 971
<211> 416
<212> DNA
<213> Homo sapiens

<400> 971

```
ccagactgac ttcaaaaaat taatgtgtat ccagggacat tttaaaaacc tgtacacagt 60
gtttattgtg gttaggaagc aatttcccaa tgtacctata agaaatgtgc atcaagccag 120
cctgaccaac atggtgaaac cccatctgta ctaaacataa aaaaattagc ctggcatggt 180
ggtgtacgcc tgtaatccca gtgacttggg aggctgaggc aggagaatcg cttgaacccg 240
ggaggcggag gttgcagtga gctaagatcg caccactgta ctccagcctg ggcaacagcg 300
agactccatc tcaaaaaaaa aggaaatgtg tatcaagaac atgattatcc aggggtatgt 360
tctaattcag atcatcaaac tgattatata gaagagtttg ctttaaaatg tttgca 416
```

<210> 972
<211> 242
<212> DNA
<213> Homo sapiens

<400> 972

```
ccaaaaatcc caaaacatca ttttcaatca gtagagaagt gcttaggggtt gaaaattgat 60
ttcatttgct actgaatttg gtaaatcctg ggtaactttt atcaagatga agacatttta 120
ccctacctac tctagaaata tacaacaatg ttatatTTTA cactccttgg aaacatttga 180
ggaaaaaaat gcaatttgca cttcactttg ttggaatatc ccatagcact caataaactc 240
ag 242
```

<210> 973
 <211> 347
 <212> DNA
 <213> Homo sapiens

<400> 973
 cctgcagggg atggaacctt ccagaagtgg gcggctgtgg tgggtgccttc tggagaggag 60
 cagagataca cctgccatgt gcagcatgag ggtctgccc agccctcac cctgagatgg 120
 gagctgtctt cccagcccac catccccatc gtgggcatca ttgctggcct ggttctcctt 180
 ggagctgtga tcaactggagc tgtgggtcgt gccgtgatgt ggaggaggaa gagctcagga 240
 cattttcttc ccacagatag aaaaggaggg agttacactc aggctgcaag cagtgcacagt 300
 gcccaggggt ctgatgtgtc tctcacagct tgtaaagtgt gagacag 347

<210> 974
 <211> 571
 <212> DNA
 <213> Homo sapiens

<400> 974
 gaaagagcga gatgcgagaa cacttttggc taaaaatctc ccttacaaag tcaactcagga 60
 tgaattgaaa gaagtgtttg aagatgctgc ggagatcaga ttagtcagca aggatgggaa 120
 aagtaaaggg attgcttata ttgaatttaa gacagaagct gatgcagaga aaacctttga 180
 agaaaagcag ggaacagaga tcgatgggag atctatttcc ctgtactata ctggagagaa 240
 aggtcaaaat caagactata gaggtggaaa gaatagcact tggagtgggtg aatcaaaaac 300
 tctggtttta agcaacctct cctacagtgc aacagaagaa actcttcagg aagtatttga 360
 gaaagcaact tttatcaaag taccacagaa ccaaaatggc aaatctaaag ggtatgcatt 420
 tatagagttt gcttcattcg aagacgctaa agaagcttta aattcctgta ataaaaggga 480
 aattgagggc agagcaatca ggctggagtt gcaaggaccc aggggatcac ctaatgccag 540
 aagccagcca tccaaaactc tgtttgtcaa a 571

<210> 975
 <211> 221
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15
 <223> n = A,T,C or G

<400> 975
 ctggaggtgc ctcanaaggt gcattctgct tcttgcaggg gcttgaaaca ccaaggcact 60
 ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
 gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180
 acgtactcct cagcagagct ggaggacagc aaggccagga c 221

<210> 976
 <211> 316
 <212> DNA
 <213> Homo sapiens

<400> 976
 ccatcagatt gtcacagact tttataaccc tttgatccct accaacgtta agtatgagtt 60


```

tggccctgcc atcttcattg gctgggcagg gtctgcccta gtcatectgg gaggtgcact 120
gctctectgt tcctgtcctg ggaatgagag caaggctggg taccgtgcac cccgctctta 180
ccctaagtcc aactcttcca aggagtatgt gtgacctggg atctccttgc cccagcctga 240
caggctatgg gagtgtctag atgcctgaaa gggcctgggg ctgagctcag cctgtgggca 300
gggtgccgga caaagg                                     316

```

```

<210> 977
<211> 335
<212> DNA
<213> Homo sapiens

```

```

<400> 977
cctgtttgtc tgtacagcaa tgcagatgcg caggcccatc ctgggtggagg acccagatgc 60
agggagcaaa tattcggggt gtgttgctaa gagtgcgagg aactactgct agtgatacta 120
ggcttgctgc aggaggatgt cacgctgaga aaggagatg actaggagca gaaaaagtac 180
tctcactgtt ccagcttcca gcccaatcct agcagaatga atgcatttta aaatcagtcc 240
acattcacat gtgctgagaa ggttgttagt ggtccctcat ctgggcaaag cagacccaag 300
atggtgctaa gtgcagagtg cagagcattc ttgtg                                     335

```

```

<210> 978
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 978
cctaacaccc aagctcttcc ttgcagaaga gctgagatgc taaggagacc atctggagtg 60
tcataataag cccttgggat ttgctgagct cccacatggc tttcttcaac cacctggccc 120
actttcttca accacattcc actttggaat gcgtgtcttt aaggcaccaa gtgatcttaa 180
gaatgggctc tgtttttgaa ttcagcaatc caagttccta tctatctcgg tgggacctcc 240
aaaaaaaaaaga aaaaggattg gcttggcttc taatgtaagg                                     280

```

```

<210> 979
<211> 318
<212> DNA
<213> Homo sapiens

```

```

<400> 979
ctgtccagat gacagtaaga ttccactgtc tgtaatcctc atggtgccag gtctcctggg 60
gcatctaggg caatgatgct actgcagttt atgcagttac acagtcaagt ctgtgccaaa 120
ggaggtccca tccggcgggc aggtttctgt tcagtctggg gagcaatgcc aactggctgc 180
ccccatagcc tggcatgagc tgatggccca gtgcaatccc aaagcaaaga agggcagaac 240
tgggccaaga agctgtggta atttgctctc cctgcctccg acagcgtcgt cctctccttt 300
tgcagcccca cacgcagg                                     318

```

```

<210> 980
<211> 568
<212> DNA
<213> Homo sapiens

```

```

<400> 980
ccagcactgg ctcccttgatg gttttcctag gacattagga caagccgaag ccctggacaa 60
aatctgtgaa gtggatctag tgatcagttt gaatattcca tttgaaacac ttaaagatcg 120
tctcagccgc cgttggattc accctcctag cggaagggtg tataacctgg acttcaatcc 180
acctcatgta catggtattg atgacgtcac tgggtgaaccg ttagtccagc aggaggatga 240

```

```

taaaccgcgaa gcagttgctg ccaggctaag acagtacaaa gacgtggcaa agccagtcac 300
tgaattatac aagagccgag gagtgtcca ccaattttcc ggaacggaga cgaacaaaat 360
ctggccctac gtttacacac ttttctcaaa caagatcaca cctattcagt ccaaagaagc 420
atattgaccc tgcccaatgg gagaaccagg aagatgtggc cattcattca atagtgtgtg 480
tagtattggc gctgtgtcca aattagaagc taactgaggt agcttgcagc atctcttcta 540
gttgaaatgg tgaactgata ggaaaaca 568

```

```

<210> 981
<211> 550
<212> DNA
<213> Homo sapiens

```

```

<400> 981
ccatccccct ttagaacgta tcttaatgtg aacataaatt gttcttcatg atgcttaaaa 60
gcttacatat aattttcatt cttagaaaaa cgccacattt tggatcctgg atttttctga 120
atatcatgat tgaaaaaac aaaacaaaaa atgaacccaa atcaaagtgt ggttaaactt 180
atatgagaaa gatttttcaa ccagatggtc attcaaaaaa gttggagctg taagtgccgg 240
cgactgagga cacaggggta attcctcgct gctgggtggaa ggctagagaa catcttcaaa 300
agagggtagc aagacgtgct cctagggggag gctcagtggt gtctcgtctg cccaagcatt 360
ttcagtcctg cttgggtcaat gacatcgagt aagtttttgg catccacagc cagggcgtga 420
gcagcagtcg gcatttgctt tttgtactct tgctggaggc tggtcatgac atactgctgg 480
gccagtttca tcttggtgat gagctcaccg aggtcagagt tcaatagctt ctgtgccatc 540
tcaatctctc 550

```

```

<210> 982
<211> 524
<212> DNA
<213> Homo sapiens

```

```

<400> 982
ccaaggctcag aggtgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60
ctggggcactg ccagagtgta tggcattggc ccgatgctg ttctgtctct gcttggacac 120
cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
ggctgagggtc tccaggaaga gcagtccatt gttttcagcg aacattcggg cctcctcagt 240
gggcacttcc cgggcctggc tgaggctact tttgttaccg acgagcatga cgacgatcgt 300
ggcttcagca tgggtcataga gctccttcag ccacgctcc accacagcat aggtctgggtg 360
cttgggttagg tcaaacacca ggagggcccc cactgcacca cgatagtacc cttgaagaca 420
aagttataat cttcctcagt tccattcccc atcttggctc cgcatggagg gtgcagggtg 480
cttcgggggac agaggcgaca aatctgtgtg ttggctcaat gccc 524

```

```

<210> 983
<211> 140
<212> DNA
<213> Homo sapiens

```

```

<400> 983
ccttcgtgcc ctaacagcca gtccccctgtt aaagtggag agacctgtgg ctgccgctgg 60
acctgccct gtgtgtgcac aggcagctcc actcggcaca tcgtgacctt tgatgggcag 120
aatttcaagc tgactggcag 140

```

```

<210> 984
<211> 358
<212> DNA
<213> Homo sapiens

```

<400> 984

```

tggagcggcc gcccggcagg tccaacgagt cacaacagtg caataggtag aggattaaaa 60
actgcatcaa acagggtgctg aaaataaata ctacctagga gaaggagggtg agagccctcg 120
tgtgggggttt gttttcgacc ccttgagtgt gtgtgggggtt tgtcttccga gccacgagcc 180
tggcctgtct cgcggtgctg ttcactctga cagagtgcgc ctgcagcacg ttgcctccag 240
ggcccagcct cccagaagcc tcagagcatc agagcatccg tcccatcgga tggaccagaa 300
acaagaaaat ggggtgggggt gaatcacagc tatcattcaa aggaaaggaa tttttttc 358

```

<210> 985

<211> 450

<212> DNA

<213> Homo sapiens

<400> 985

```

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
acaagacaac ctgaagctaa atggatgccc cctgcagagt caacagggtcc agcctcacag 120
tgcacgccct gagctacagc ctctcccaaa aggcatcttc cccacagcct caacgccgag 180
caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
agaaaatgcc agaaacatct ttaaatgcct tgtcacacca acagcaaagt gcacagagtg 360
aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caactttgat 420
acagtttcag ggtgctccag acacccatgg 450

```

<210> 986

<211> 340

<212> DNA

<213> Homo sapiens

<400> 986

```

cctcctgcc a gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtattttctc 60
agttgcagca ctgagtggtc aaaatacatt tctggggccac ctcagggaac ccatgcatct 120
gcctggcatt taggcagcag agccctgcac cgtcccccac agggctctgc ctcacgtcct 180
catctcattt ggctgtgtaa agaaatggga aaagggaaaa ggagagagca attgaggcag 240
ttgaccatat ccagttttat ttattttatt ttaatttggt tttttctcca agtccaccag 300
tctctgaaat tagaacagta ggcggtatga gataatcagg 340

```

<210> 987

<211> 227

<212> DNA

<213> Homo sapiens

<400> 987

```

ccaatgcccg gagcaggccc tctttccatc ccgtgtcgga tgagctggtc aactatgtca 60
acaaacggaa taccacgtgg caggccgggc acaacttcta caacgtggac atgagctact 120
tgaagaggct atgtgggtacc ttcctgggtg ggcccaagcc accccagaga gttatgttta 180
ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

```

<210> 988

<211> 241

<212> DNA

<213> Homo sapiens

<400> 988

```

cctcttttta ccagctccga ggtgattttc atattgaatt gcaaattcga agaagcagct 60
tcaaacctgc cggggcttct cccgcctttt ttcccggcgg cgggagaagt agattgaagc 120
cagttgatta ggggtgcttag ctgttaacta agtgtttggt ggtttaagtc ccattggtct 180
agtaagggct tagcttaatt aaagtggctg atttgcgttc agttgatgca gagtggggtt 240
t                                                    241

```

```

<210> 989
<211> 193
<212> DNA
<213> Homo sapiens

```

```

<400> 989
ccagccgtgt cccagacttg tagtttgatc ttcttcccct ctatatccac agtgccgcatc 60
ttgaaatcaa ttccgatggg ggagatgtaa gtgttggtga agttgtcctc tgcaaagcga 120
atgatcagac aagtcttgcc cccccccgag tccccgatca gcagcaactt gaagaggtgg 180
tcgtaggctt tgg                                                    193

```

```

<210> 990
<211> 499
<212> DNA
<213> Homo sapiens

```

```

<400> 990
cctcaaccaa gagggttgat ggcctccagt caagaaactg tggctcatgc cagcagagct 60
ctctcctcct ccagcaggcg ccatgcaagg gcaggctaaa agacctccag tgcataca 120
tccatctagc agagagaaaa ggggcactga agcagctatg tctgccaggg gctaggggct 180
cccttgca ga cagcaatgct acaataaagg acacagaaat gggggagggtg ggggagccct 240
atTTTTataa caaagtcaaa cagatctgtg cgttcattcc cccagacaca caagtagaaa 300
aaaaccaatg ctgtgggttc tgccaagatg gaatatcct cctcctagtt ccacacatgg 360
cgtttgcaat gctcgacagc attgcactgg gctgctgtct ctgtgttctg gcaccagtag 420
cttgggcccc atatacactt ctcagttccc aacaagggtc tatgggccga ggggcaggct 480
ccaattttca agcacacga                                                    499

```

```

<210> 991
<211> 262
<212> DNA
<213> Homo sapiens

```

```

<400> 991
ctgccagcca ggctgtggtc agtcctctgg caggcaatct tcggcaccga gagcctctgt 60
ccattagtgt cagccccgag ggggccacga cggaggccgc ccaatgtcca ctgtgatatt 120
ggtgaagagt ggttgccgag acacctccaa gacctggtac cgcactgacc caatgccgtc 180
ccgcttcatg gtcagcttcg tgttttgaat cttggtaaac ctctgagggt taggttcgtt 240
atgcttgctg cggtcgtgct tg                                                    262

```

```

<210> 992
<211> 535
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 90, 91, 467, 524
<223> n = A,T,C or G

```

<400> 992

```

ctgctgcttg tgaaattcat gtgtggtact aagtacctta catgaattat ttcattttaac 60
cctcccaaca gtctcctttg tacgtgctgn nctctctgcc tggaaacact gtttcccacc 120
cccaaccccc aattcttctg tttatttttc ttgagacaga gtctcaactgt gtagcccaga 180
ctggagtgca gtggcgcgat ctgggctcac tccaatctcc gcctcccggg tccctgttca 240
agcagttctc ctgcctcagc ctcttgagta gctgggatta caggcacacg ccaccatgtc 300
cagctaattt ctgtattttt agtagagatg gggtttcacg atgttggcta ggatgggtctc 360
gatctctggg cagagtcctt tctgtaaata tccttggtaa agaagcaatt ttagactgta 420
gctgttgcaa atgctttaag gaagaagcaa aacaactgtc agtcttnctg aaatgaagaa 480
actacaccag ggctgctata tcagagcaac cccaaccagc actncaatca tgatg      535

```

<210> 993

<211> 232

<212> DNA

<213> Homo sapiens

<400> 993

```

ctgctgctct cccctcccag tctctactca ctgggatgag gttagggtcat gaggacacca 60
aaaacctaaa aataaacaaa aagccaaaca agccttagct tttcttaaag gctgaaatgc 120
ctggaagtgt ccctttatct ataaaataac ttttgctata tttcttatac atgtttcttg 180
taagaaattc agaaactaca gacaaagaga gtggaaatta cccactgtca gg      232

```

<210> 994

<211> 203

<212> DNA

<213> Homo sapiens

<400> 994

```

ccagcagatc atccacgacg accaccctct gtcctggctc cagggcgctct ttctgaatct 60
ccagctcagc ctccccgtac tccaggggat aggaggccca cagagtgggg cctggcagct 120
tcccccgctt tcggatgagc acgcagccca gtccaagctc ctgggccagg gaggggccaa 180
agaggaagcc tcgggagtct agg      203

```

<210> 995

<211> 238

<212> DNA

<213> Homo sapiens

<400> 995

```

ccatgcctgc cccgcccact ctgtatatat gtaagttaaa cccgggcagg ggctgtggcc 60
gtctttgtac tctggtgatt tttaaaaatt gaatctttgt acttgcatg attgtataat 120
aattttgaga ccaggtctcg ctgtgttgct caggctggct ccaaactcct gagatcaagc 180
aatccgcca cctcagcctc ccaaagtgtc gagatcacag gcgtgagcca ccaccagg 238

```

<210> 996

<211> 379

<212> DNA

<213> Homo sapiens

<400> 996

```

ctgcagcctg ggactgaccg ggaggctctg accatttacc caccacaggt aggttgtgtt 60
ctgaacctca ggttcacagg tgaaggccac agcatccttg tcctccacgg ggttgagatt 120
gttgctggag atggagggct tgggcagctc cgggtataca tggaactgtc cggttgcttc 180

```

```

ttcattcaca agatctgact ttatgacttg tagggatatag aatcctgtgt cattctgggt 240
gacgttctgg atcagcaggg atgcattggg gtatatgtgc tctcgaccac tgtatgcggg 300
ccctggggta gcttggtgag ttctattac atatectaca attagactgt tgccatccac 360
tctttcgccct ttgtaccag 379

```

```

<210> 997
<211> 210
<212> DNA
<213> Homo sapiens

```

```

<400> 997
ccatccgaag caagattgca gatggcagtg tgaagagaga agacatattc tacacttcaa 60
agctttgggtg caattcccat cgaccagagt tgggccgacc agccttggaa aggtcactga 120
aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagg 180
ccgtggagaa gtgtaaagat gcaggattgg 210

```

```

<210> 998
<211> 207
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 61
<223> n = A,T,C or G

```

```

<400> 998
ggtggctgtg ctggggggcgc cccacaaccc tgctcccccg acgtccaccg tgatccacat 60
nccagcagag acctccgtgc ccgaccatgt cgtctgggtcc ctgttcaaca ccctcttcat 120
gaacccttgc tgcttgggct tcatagcatt cgcctactcc gtgaagtcta gggacaggaa 180
gatggttggc gacgtgaccg gggccca 207

```

```

<210> 999
<211> 315
<212> DNA
<213> Homo sapiens

```

```

<400> 999
ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
tggcagacct catgcaatgc cctccatggt aatattcatc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaataac gcacatttct gtttaggcca tctatggcct 240
tcatctcttc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
cattgtagct cttgg 315

```

```

<210> 1000
<211> 186
<212> DNA
<213> Homo sapiens

```

```

<400> 1000
ctgttactca agaagatgta tttaatgctt gacaataaga gaaaggaagt agttcacaaa 60
ataatagagt tgctgaatgt cactgaactt acccagaatg ccctgattaa tgatgaacta 120
gtggagtgga agcggagaca gcagagcgcc tgtattgggg ggccgcccac tgcttgcttg 180

```

gatcag

186

<210> 1001

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1001

```
ccacaaagcg gaaactcatc cactttttgcc tttttccgcc ccaggtcaaa aatgcgaatc 60
ttggcatcag ggacacctcg gcagaagcga gactttgggt acggcttggt cttacaatac 120
cggtaacaac gggcggggcg gcggcccatg gcgacaccag gatcttcagt ggc 173
```

<210> 1002

<211> 302

<212> DNA

<213> Homo sapiens

<400> 1002

```
ctgaatgcct gagcccagca gggagctgag gatcatgggg tactgggggg gcctgaagac 60
gtcgccgtgc accaacttcc acccagactc ctccatgggt tcttcaatgt catcctcctt 120
gttgtagttg gcaatgtcct tcgggagggt ccgaatgata atcatgctca ggataacctga 180
caggaagaag accacaacaa cggagttaat gatagaaaac cagtggatct ggacgtcact 240
catggtcagg taagtgtccc agcgagaggg ccatttgata tcactttcct cccagtggac 300
ag 302
```

<210> 1003

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1003

```
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgatattt tagtagaaat ggggtttcac catgttggcg aggctggctc cgaactcccg 300
acctcaagga tcctcctgcc tcggcctcct aagggtgctg gattgcaggt gtgagccacc 360
acgtctgg 368
```

<210> 1004

<211> 294

<212> DNA

<213> Homo sapiens

<400> 1004

```
ctgggcggat agcaccgggc atattttgga atggatgagg tctggcacc ttagcagttc 60
agcgaggact tggctcttagt tgagcaattt ggctaggagg atagtatgca gcacggttct 120
gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
ttacagggtt gggcacagct cgtacacttg ccattctctg catatactgg ttagtgaggt 240
gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294
```

<210> 1005

<211> 414

<212> DNA

<213> Homo sapiens

<400> 1005

```
ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60
gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120
cccattcgca gccttttagca tcatgtagaa gcaaactgca cctatggctg agataggtgc 180
aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240
gacagtcaaa gagcaagtga aaccatttcc agcctaaact acataaaagc agccgaacca 300
atgattaaag acctctaagg ctccataatc atcattaaat atgcccacaa tcattgtgac 360
tttttatttt atatacagga ttaaaatcaa cattaaatca tcttatttac atgg 414
```

<210> 1006

<211> 272

<212> DNA

<213> Homo sapiens

<400> 1006

```
ccggagccca cgggtggcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60
ttgctgtcct ccagctctgc tgaggagtac gtgggcctgt ctgcaaacca gtgtgccgtg 120
ccagccaagg acaggggtgga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gccctgcag 240
gaagcagaat gcaccttctg aggcacctcc ag 272
```

<210> 1007

<211> 313

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 14

<223> n = A,T,C or G

<400> 1007

```
cctgccttac tctnttcctt ttccccaggg actcttggtt ttcagaagcc cctctggaat 60
gtcctacctg gcctaacccc ataccagcag tgcagacaag gaggcactcc tactatagtg 120
gggccagccc atggagagac tcaacttctg ccccaacacc tcttccccta gaccctgagg 180
gccaggacaa tgtcttagtg ccttccaact tggcagagtg aggcccatg agacagagag 240
aaagggggaa gagggaaata cttttatcca aataaatacc catccaaaat tatttgtgat 300
aggtgaaaaa tgg 313
```

<210> 1008

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1008

```
cctcaatgtc gtgctagagg ggccgaagaa ggccgtgaac gacgtgaatg gcctgaagca 60
atgtttggca gaattcaagc gggatctgga atgggttgaa aggctcgatg tgacactggg 120
tccggtaccg gagatcgggt gatctgaggc gccagcacct cagaacaagg accagaaagc 180
tgttgatcca gaagacgact tccagcgaga gatgagtttc tatcgccaag cccagggcgc 240
agtgttgca gtcttaccce gcctccatca gctcaaagtc cctaccaagc gaccactga 300
ttattttgcg gaaatgg 317
```


<210> 1009
 <211> 456
 <212> DNA
 <213> Homo sapiens

<400> 1009
 ttttttttgta gggatatagaa aatacatttt taatttttgat agagttcaca aatgacagca 60
 ttgacatttc tttaaacaaa tactttctgtc aaggcacagc attaccatgt gtccccagat 120
 gcccaagagg cagtgatattc atgtccccct gaggttttagc agagccacca atgtcaatag 180
 ggtggctgac ggggcctaga ttgtctacca gataagccaa tgagacatgc tgtcagattt 240
 atggttacat aatcaagtat ttaaaaagat gcacaatagg taactgcaat gagcttggtc 300
 tgcatttagc gatagttcct ttcaaacaaa gaagatagtt ttcagtatca agaaggatgc 360
 ctatatgtat gtcttccatg gagcctttcc taaaattgc tttcattaca cattaagg 420
 agttcagctt tattgtgacc ttcttgagtc attcag 456

<210> 1010
 <211> 196
 <212> DNA
 <213> Homo sapiens

<400> 1010
 ctgggcatgg gctgaggaga ggtcttgctt gcccccttca actttccatc tcagaactat 60
 aaactgctag gctgcaagga gagaagggt aagtgggggt cagacaggag agaagggcag 120
 gaggcagtga gccccgatga cccaccaact ccaccaggcc ctgacaggga agcccccttg 180
 gttagtatca ttttgg 196

<210> 1011
 <211> 449
 <212> DNA
 <213> Homo sapiens

<400> 1011
 ccttgcggt gctgcgaaag gccacggcgc tgcctgcccc cggggcccag tactttgatg 60
 gttcagagcc cgtgcagaac cgcgtgtaca agtcactgaa ggtctggtcc atgctcgccg 120
 acctgaagga gagcctcggc accttccagt ccaccaaggc cgtgtacgac cgcctcctgg 180
 acctgcgtat cgcaacaccc cagatcgta tcaactatgc catgttctctg gaggagcaca 240
 agtacttcga ggagagcttc aaggcgtacg agcgcggcat ctgctgttc aagtggccca 300
 acgtgtccga catctggagc acctacctga ccaaattcat tgcccgtat gggggccgca 360
 agctggagcg ggacgggac ctgtttgaac aggctctgga cggctgcccc caaaatatg 420
 ccaagacctt gtacctgctg tatgcacag 449

<210> 1012
 <211> 289
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 274, 275
 <223> n = A,T,C or G

<400> 1012
 ccaggaccac aacccacgc tgtagctggt agcgcagggc aatcagggt ggggttcgct 60
 tgtgtttttt tgccaaggca caaaggactg ggtcctccaa gagcaccggg gaggttcgggt 120

```

ccacccatgg ttcttctcgg tgggatccca gagcactata ggcaaccaga acaatgtctt 180
ttgacttgca gaaatccagc agttttctct ggttgaagta aggatgacat tccacctggt 240
tgcagacagg cttgtacttg agccctggct tgtnnaggat catctccag 289

```

```

<210> 1013
<211> 221
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 98, 99, 132, 133, 180
<223> n = A,T,C or G

```

```

<400> 1013
tctgtaaatg ctgcgttcct aatttagtaa aataaaagaa tagacactaa aatcatgttg 60
atctataatt acacctatgg gatcaataag catgtcanna ctgattaatg tctactgtaa 120
aaatttggta gnnaaathtt catttgatat tagatataaa tatctgaata taaataattn 180
taatatacta gtcatgatgt gtgttgtatt ttaaaaatta t 221

```

```

<210> 1014
<211> 512
<212> DNA
<213> Homo sapiens

```

```

<400> 1014
gggccccga agcctctaca atgggctggt tgccggcctg cagcgccaaa tgagctttgc 60
ctctgtccgc atcggcctgt atgattctgt caaacagtgc tacaccaagg gctctgagca 120
tgccagcatt gggagccgcc tctagcagg cagcaccaca ggtgccctgg ctgtggctgt 180
ggcccagccc acggatgtgg taaagggtccg attccaagct caggccccgg ctggagggtg 240
tcggagatac caaagcaccg tcaatgccta caagaccatt gcccgagagg aagggttccg 300
gggcctctgg aaagggacct ctcccaatgt tgctcgtaat gccattgtca actgtgctga 360
gccggcgacc tatgacctca tcaaggatgc cctcctgaaa gccaacctca tgacagatga 420
cctcccttgc cacttcactt ctgccttttg ggcaggcttc tgcaccactg tcatcgctc 480
ccctgtagac gtggtcaaga cgagatacat ga 512

```

```

<210> 1015
<211> 553
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 518
<223> n = A,T,C or G

```

```

<400> 1015
ctgggcagga agattatgat cgcccgaggc ccctctccta ccagataacc gatgttatac 60
tgatgtgttt ttccatcgac agccctgata gttcagaaaa catcccagaa aagtggaccc 120
cagaagtcaa gcatttctgt cccgacgtgc ccatcatcct ggttgggaat aagaaggatc 180
ttcggaatga tgagcacaca aggcgggagc tagccaagat gaagcaggag ccggtgaaac 240
ctgaagaagg cagagatatg gcaaacagga ttggcgctt tgggtacatg gagtgtctcag 300
caaagaccag agatggagtg agagaggttt ttgaaatggc tacgagagct gctctgcaag 360
ctagacgtgg gaagaaaaaa tctgggtgcc ttgtcttgtg aaaccttget gcaagcacag 420

```

cccttatgcg gttaattttg aagtgctggt tattaatctt agtgtatgat tactggcctt 480
 ttccatttat ctataattta cctaagatta caaatcanga agtcatcttg ctaccagtat 540
 ttagaagcca act 553

<210> 1016

<211> 431

<212> DNA

<213> Homo sapiens

<400> 1016

ccacttcaca tgatggcggg cctttaagag cacaaagaag tttaatatgg acaacaacag 60
 gaaaaagcaa gaagaaaaca agtagggaaa gacagctaac ctggagagag agaatttctt 120
 taacctttat gttcttcatt aaaaatctta tcttggactg atttgaggga tttttagaaa 180
 catggcctta ttttatataa gcattacctt cccaggaatc tttgttgtat attaattttt 240
 gataaccatt tgattaactt taaaattaag tatatgtgtg tatatataca tatgtatggt 300
 tatatacaca catgtatctg tatagtttta tatatacata tatacacata gacatacaga 360
 gaaccactac tttgtaatag tgtacagttt gttttatatac tctttacttt ttttgttact 420
 attttatctg t 431

<210> 1017

<211> 490

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 427, 434

<223> n = A,T,C or G

<400> 1017

ctggaagaac aaggcgaagt tctggtggct gtctgcatg aatgtgccct tggctttggc 60
 tgggtatgtc acccggttag ttttgggtgc aatgctctga tccttatcca cggtaggaag 120
 atcaacattt gtgatgccaa cttcagtggg gatcttgact ctgagctcta cggtatattgc 180
 aatataccgg ttgtcacctt caacttcgac aaggaagtca taataaccac tggaaaattt 240
 gacgttcatg aaatttagtt caaaaacatc ccctacaggg gtgaaggatg tcttctggag 300
 gacagtggct ctggaagcaa cagatttagc atgttctagt ttaacagtgg cctgagtcag 360
 aggctgagac agaacattgg tgacttgcaa ccgcaagata gcctgttcat gagtgtcgga 420
 agcaganccc tcangcacia ccacaactgg cacgtggtag cgattatgcg agagcacagg 480
 cagacctcgg 490

<210> 1018

<211> 503

<212> DNA

<213> Homo sapiens

<400> 1018

ggagtaagct gagtacaagt accatagcag cagagctgca aaaggtcttg ggacctatag 60
 tcctaatagca agataaggct atggggccta aggccatggg gcctgaggca cccctagacc 120
 ctgagccttc agcatttaag ggagggtgtc ccccatctt cgataggcca tggtagacag 180
 atgggtctag ccgaggtgct ataactgctt ggaccactgt tgcagtccaa cctagtactg 240
 acactatatg gtttgaaacc cgggtgtggac aaagtagcca atgggctgaa cttagagcag 300
 tgtggatggg gatcaccaag gaggtgacac tgatggtaat ctgtatcaat agctgggtgg 360
 tctaccaagg cttaactttg tggttaacta cctggaaaat acagaagttg ctagtcggcc 420
 accaaccat ttgggggtcaa gccacgtggc aagacctctg ggaaatgggt catcagaaac 480

aggtaaccgt ttatcatgtg tca

503

<210> 1019

<211> 348

<212> DNA

<213> Homo sapiens

<400> 1019

cctgtgtatg	gagtagaggc	gggtgcacgg	gtactgttcc	tcacggcagt	caagaggccc	60
aggctctgtg	ggctccagct	ctgcatttcc	cggttctggg	ggtggggctg	ggatgacttc	120
ctgttggaact	tgctgctggg	actggaactg	gaactgttcc	tcggagggcc	gaggagtcac	180
ctcttgataa	tcatagtagt	ctgggttggt	gatctgggtc	ctatagtggg	tgtactggac	240
gtggtcaggg	aacggcggca	gcgggtccag	gtcatactgg	ccctgagcca	gcaagcctgc	300
aggcaggaat	agcaggaaga	ggtaggcagc	tctcatggca	acaaagag		348

<210> 1020

<211> 260

<212> DNA

<213> Homo sapiens

<400> 1020

ccacacggcg	accgagggac	agatggggcc	ctgcgtccca	taggctgcct	gaaggtgggt	60
agggcggcct	gcggcatagt	gggttggtctg	tgggtccca	gcctggcccc	tgggaaccgt	120
gggagcacag	ggacaagcac	atggctatgg	aatgcagggt	gacccaagga	caagcgagtt	180
gcggggatct	ctactgtgac	catgcagaat	tgatcgagct	ctgctgcgcc	accaccacct	240
catgttcccg	aggggaacag					260

<210> 1021

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1021

ccttatgact	ataacggccc	acgagaaaaa	tatggaatcg	ttgattacat	gatcgagcag	60
tccgggcctc	cctccaagga	gattctgacc	ctgaagcagg	tccaggagtt	cctgaaggat	120
ggagacgatg	tcatcatcat	cggggtcttt	aagggggaga	gtgaccacag	ctaccagcaa	180
taccaggatg	ccgctaacia	cctgagagaa	gattacaaat	ttcaccacac	tttcagcaca	240
gaaatagcaa	agttcttgaa	agtctcccag	gggcagttgg	ttgtaatgca	gcctgagaaa	300
ttccagtcca	agtatgagcc	ccggagccac	atgatggacg	tccagggtct	caccagggac	360
tcggccatca	aggacttcgt	gctgaagtac	gccctgcccc	tggttgg		407

<210> 1022

<211> 140

<212> DNA

<213> Homo sapiens

<400> 1022

ccaccccgaga	gtgggagagg	ctgggaggtt	gggaggctgt	ggagagaagt	gagcaagggtg	60
ctcttgaacc	tgtgctcatt	ttgcaatttt	atcagtaatt	tgacttagag	tttttacgaa	120
acctcttttg	ttgtccttgc					140

<210> 1023

<211> 280

<212> DNA

<213> Homo sapiens

<400> 1023

```
ctggaggtgc ctcagaaggt gcattctgct tcctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
gggtagccgc agtccaccct gtccttggct ggacacggcac actggtttgc agacaggccc 180
gcgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
gctctggcag ccatgaccac cgtgggctcc gggacgcagc                280
```

<210> 1024

<211> 274

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 262

<223> n = A,T,C or G

<400> 1024

```
cctggctgag caggcagagc accctgggac cccagggcag aaggacccct gccctccagt 60
ccccaagacc caggcccgtc tccactcata cacgccacct acatgtgacg tcagccctga 120
aaaggtaaca ggaaagttca gaacaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaaacg ttatatacac aggcggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc anaggtcctt gtgg                274
```

<210> 1025

<211> 446

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 427, 431, 440

<223> n = A,T,C or G

<400> 1025

```
gcaaagagtg tactgtgctt gaggcagagc actcacacat aaatggctgt gtgtggaatt 60
gcttgccaaa gaagtttcta gcctttccct ttcccctaac tgcacaggg aagaattctt 120
atctctagct tggtttccac atgaggtttt tctgagaagg gcttgggaca agaagtctgt 180
catgttagtt aagcaggcaa gaaatcctac taatccagtt ttgtttgaaa gttgtttgtc 240
cgtatgattt tttaaaagtc aagtttaatt tcaaaaaacc ttttttttct gagattactt 300
ttggggtaat atttaaaatg agagacattt tgtaaccctg taaaatacat aggggaatata 360
acattccagt gtatacaaag aaggcaaatt ctttaaatcaa ataaagcgca ttataaaatc 420
aaaaaanaaa naaaaaaaan aaaaaa                446
```

<210> 1026

<211> 189

<212> DNA

<213> Homo sapiens

<400> 1026

```
ctgtgagaga gatgctcaat atgccccagg ctatgacaaa gtcaaggaca tctcagaggt 60
ggtcacccct cggttccttt gtactggagg agtgagtccc tatgctgacc ccaatacttg 120
```

cagaggtgat tctggcggcc ccttgatagt tcacaagaga agtcgtttca ttcaagttgg 180
tgtaatcag 189

<210> 1027
<211> 92
<212> DNA
<213> Homo sapiens

<400> 1027
ccagaccctc cttagtagac gatctcggac cacaaaccaa ggagtctcgt ggccttggat 60
tcccagaccc taggatggta tccctctgac ag 92

<210> 1028
<211> 438
<212> DNA
<213> Homo sapiens

<400> 1028
ctgaaaagcc atcttttgc at tgttctcat ccgcctcctt gctcgcgcga gccgcctccg 60
ccgcgcgcct cctccgcgcg cgcggaactcc ggcagcttta tcgccagagt cctgaactc 120
tcgcttttctt tttaatcccc tgcctcggat caccggcgtg cccaccatg tcagacgcag 180
ccgtagacac cagctccgaa atcaccacca aggacttaaa ggagaagaag gaagttgtgg 240
aagaggcaga aaatggaaga gacgcccctg ctaacgggaa tgctaagtga gaaaatgggg 300
agcaggaggc tgacaatgag gtagacgaag aagaggaaga aggtggggag gaagaggagg 360
aggaagaaga aggtgatggt gaggaagagg atggagatga agatgaggaa gctgagtcag 420
ctacggggcaa gcggggcag 438

<210> 1029
<211> 330
<212> DNA
<213> Homo sapiens

<400> 1029
ccagccgcat gggagtggag gcagtcacgc ccttgctaga ggccaccccg gacaccccg 60
cttgcgctcgt gtcaactgaac gggaaccacg ccgtgcgcct gccgctgatg gaggcgctgc 120
agatgactca ggatgtgcag aaggcgatgg acgagaggag atttcaagat gcggttcgac 180
tccgaggggag gagctttgcg ggcaacctga acacctaca gcgacttgcc atcaagctgc 240
cggatgatca gatcccaaag accaatcgca acgtagctgt catcaacgtg ggggcacccg 300
cggctgggat gaacgcggcc gtacgctcag 330

<210> 1030
<211> 228
<212> DNA
<213> Homo sapiens

<400> 1030
ctggagactc tgggccagga gaagctgaag ctggaggcgg agcttggcaa catgcagggg 60
ctggtggagg acttcaagaa caagtatgag gatgagatca ataagcgtac agagatggag 120
aacgaatttg tctcatcaa gaaggatgtg gatgaagctt acatgaacaa ggtagagctg 180
gagtctcgcc tggaagggct gaccgacgag atcaacttcc tcaggcag 228

<210> 1031
<211> 294
<212> DNA

<213> Homo sapiens

<400> 1031

```
ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60
ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120
cctaccagcc agcacctcct tcaggttact tcatggcagc tatcccacag actcagaacc 180
gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
ctcaggggtgc cagacctcat ccattccaaa atatgcccggtgctatccgc ccag 294
```

<210> 1032

<211> 278

<212> DNA

<213> Homo sapiens

<400> 1032

```
ggaggtatta cagacagcac tgcacttttg agttgggcag ctacatcgag gacctctttg 60
tgggtccacag tgacctctcc agcattgtga tcctggataa ctccccaggg gcttacagga 120
gccatccaga caatgccatc cccatcaaata cctgggttcag tgaccccagc gacacagccc 180
ttctcaacct gctcccaatg ctgggtgccc tcagggttcac cgctgatggt cgttccgtgc 240
tgagccgaaa ccttcaccaa catcggtctt ggtgacgg 278
```

<210> 1033

<211> 155

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 9, 17, 31, 74, 75

<223> n = A,T,C or G

<400> 1033

```
cgcggttcanc catgttnaaa ccgattgcat naacttcgaa accggccccgc ccgcccggcgc 60
ctggagaggg gcanngggag aagcagagag tttatcattc atctgtacac atagacgttt 120
cttcttttaa taacaccacg ggcgggagcc ccac 155
```

<210> 1034

<211> 401

<212> DNA

<213> Homo sapiens

<400> 1034

```
ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
cccctcatcc ccatggagca ttgcaccacc cgcttttttcg agacctgtga cctggacaat 120
gacaagtaca tcgccttggg tgagtgggccc ggctgcttcg gcatcaagca gaaggatata 180
gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaaccc 240
tccccttcgt gtttccccca atgttttaaaa tgtttggatg gtttgttggt ctgcctggag 300
acaaggtgct aacatagatt taagtgaata cattaacggg gctaaaaatg aaaattctaa 360
cccaagacat gacattctta gctgtaactt aactattaag g 401
```

<210> 1035

<211> 333

<212> DNA

<213> Homo sapiens

<400> 1035
 ctgagctggg ggttgaattt ctccaggcac tccctggaga gaggacccag tgacttgtec 60
 aagtttacac acgacactaa tctcccctgg ggaggaagcg ggaagccagc caggttgaac 120
 tgtagcgagg cccccaggcc gccaggaatg gaccatgcag atcactgtca gtggagggaa 180
 gctgctgact gtgattaggt gctgggggtct tagcgtccag cgcagcccgg gggcatcctg 240
 gaggctctgc tccttagggc atggtagtca ccgcgaagcc gggcacccgc ccacagcatc 300
 tcctagaagc agccggcaca ggaggggaagg tgg 333

<210> 1036
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 1036
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tcttaattac 60
 tagacctcag tactgaatca ggacctcact cagaaagact aaaggaaatg taatttatgt 120
 acaaaaatgta tattcggata tgtatcgatg ccttttagtt tttccaatga tttttact 180
 atattcctgc caccaagg 198

<210> 1037
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1037
 ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattgtt 120
 ctggttgctt atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
 ccggtgctct tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240
 gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggctcctgg 289

<210> 1038
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1038
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgaggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 aatacaaaaa attagccaag tgtgggtggca tatgcctgta atcccaacta ctcagaaggc 180
 cgaggcagga gaattacttg aacgcaggag aatcactgca gcccaggagg cagaggttgc 240
 agtgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300
 gtaaataaat aaataaataa aaagcgctgc agtagctgtg gcctcaccct gaagtcagcg 360
 ggcccagg 368

<210> 1039
 <211> 417
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 226, 227, 246, 259, 390, 391

<223> n = A,T,C or G

<400> 1039

```
ctgggcctat gctgggtcatg aacgggtcctg gaaaatgact cccttccttc agtatctgca 60
tcctcatgaa gtcattcatt ttggagatcg tgtcttcact tttcttggtg aagaaactgc 120
tggatggagt tggtgggtggc atctgaggag tccgaagatg gctctcaggg aagggtgtgc 180
tggcctctga aggatttgga agctgactct gttcctgggg tagctnnatg ctcttggggg 240
cattgnttct cgggtttgnt tttttcttta tctggataaa actatgcatt tctgaaatca 300
gttttgacat ctgggttcttt tttcctaagt cgaaagcaga aaagttggaa gcttatctcc 360
ttcttcacag ggggatattg tggacattgn nctgtcccca ctacatccat ttttct 417
```

<210> 1040

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1040

```
ctgtccaatg gcaacaggac cctcactcca ttcaatgtca caagaaatga cgcaagagcc 60
tatgtatgtg gaatccagaa ctcaagttagt gcaaaccgca gtgaccaggt caccctggat 120
gtcctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcggga 180
gcgaacctca acctctcttg ccaactcgcc tctaaccat cccgcagta ttcttggcgt 240
atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat cagccaaat 300
aataacggga cctatgcctg ttttgtctct aacttggcta ctggccgcaa taattccata 360
gtcaagagca tcacagtctc tgcattctga acttctctct gtctctcag 409
```

<210> 1041

<211> 492

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 473

<223> n = A,T,C or G

<400> 1041

```
cctcggctcc acacctccgc tgtgaccaca gcctcaggtc aagctgtgct ggggccatcc 60
accttccttt gccatttaga agatgggggt tggagcttgg caacacagaa attgacatca 120
gccttataaa accttggtctg aacctaccga cctccaggag aatttcagcc aaaacaaaaa 180
agcaaataca cagagggacc ctggaaccag aatccctccc catgggaaag acgaaggcac 240
agagattcga gccaaagtctt ccaacatggt ggtgtttgca gaaaagtccg gtcacgtcac 300
acacagcaca gaggcaagaa gcgaaggcag tggcattcac aggactactt tatattaaag 360
tttattacat ttggaaaatc tactgtacag ggaaaaaccc attggattaa gtagagtttt 420
gccaaaagca aaagactatc actcttttga aaatattcct gattccagcc canggccag 480
ggtggggcca ca 492
```

<210> 1042

<211> 125

<212> DNA

<213> Homo sapiens

<400> 1042

```
cctggctctg atccagtgc cctctcacc aaagaactcg gtttaaccag ggctctgtaa 60
gaccactccc acccagagac ttgtgtggcc tgggtgtggcc tgtgtgtcgg attccttcct 120
```

gtcag

125

<210> 1043

<211> 459

<212> DNA

<213> Homo sapiens

<400> 1043

```

ccagcctgga gataaggggtg aaggtgggtgc ccccggactt ccaggtatag ctggacctcg 60
tggtagccct ggtgagagag gtgaaactgg cctccagga cctgctgggt tccctgggtgc 120
tcctggacag aatgggtgaac ctgggtggtaa gggagaaaga ggggctccgg gtgagaaagg 180
tgaaggaggc cctcctggag ttgcaggacc cctggaggt tctggacctg ctggtcctcc 240
tggtcccaaa ggtgtcaaag gtgaacgtgg cagtcctggg ggacctgggt ctgctggctt 300
ccctgggtgct cgtgggtcttc ctggtcctcc tggtagtaat ggtaaccacg gacccccagg 360
tcccagcggg tctccaggca aggatggggc cccaggctct gcgggtaaca ctgggtgctcc 420
tggcagccct ggagtgtctg gaccaaagg tgatgctgg 459

```

<210> 1044

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1044

```

cctgggcccc ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tcctgggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctgggtc cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
acgtctgg 368

```

<210> 1045

<211> 315

<212> DNA

<213> Homo sapiens

<400> 1045

```

ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggcctcc 120
tggcagacct catgcaatgc cctccatgtt aatattcacc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaataac gcacatttct gtttaggcca tctatggctt 240
tcattctctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
cattgtagct cttgg 315

```

<210> 1046

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1046

```

cctcgccctg agggccccgg gcagcacagg gaggacgagc ttgtccagca gagggctctg 60
cagaggggtc cgcagagggt tgggcagggg gtctgacatc cctggctcct gctctggctc 120
tggtgcccgg gatttgcaca ggcccagggt catacagatg ccgtttgagt caatctgggt 180
ctggaagtag tcgatgacca gggggaagta gtcgtcaagc acttggttgc actggggcat 240

```

gagcagcttc aaggggagga cgttgcactc ctgctccagg aacttcctca ccgtgtcctg 300
gaaaatggcc tccttgg 317

<210> 1047

<211> 412

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 183, 271, 287, 292, 294, 343

<223> n = A,T,C or G

<400> 1047

gtacaagctt tttttttttt tttttttttt tttgtttaat gcttgaactt tattttggag 60
agagaaattt agaaagacac aaggtacaca gagtaaaatg tttttctttt ttcaggacct 120
tgaactgaat cttgcactgc tttggtttct atctaggaag ctacagcgaca gcagagtctg 180
tanaggcggc cactgatttc acacaccccg gagagggact cacgggtagc acaacggccg 240
gttcggcaat agcaggtggc tcttgccctga naacctgagg ttctaanagc ananagtcca 300
tttcctgcaa aggagatagc aaggtcctgg ttgtcttccc canactgctt ctgggttgta 360
gcctcatcag ctctttcctg gagtgactca gcctgggcct gcaggggccac ca 412

<210> 1048

<211> 476

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 267, 336, 344, 360, 395, 419, 420, 430, 441

<223> n = A,T,C or G

<400> 1048

taaaaaaagg aaaaagtttt attacgaaac tagtttgtat aaaacagggt tatacatatt 60
tttgtaagtt tgtaataaaa cagtaagaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgaa cagtatttaa taacatcatt aatacatata caacatttct ataaagtaag 240
acacattggg gctgaagtac aactggnggc ctcttgatct cacctatgag gagagttctt 300
tacaaaacca catagggaaa attgcagttg taaggngaac tacncatcta aaatatgcan 360
aggtaatagc attacatggt aaaggatatc aggnatata cacattttta accatttggn 420
acaaaacttn tataaaattt ntttctctct ctttctctct tatgcacaaa aaatat 476

<210> 1049

<211> 274

<212> DNA

<213> Homo sapiens

<400> 1049

cctggctgag caggcagagc accctgggac cccagggcag aaggaccct gccctccagt 60
ccccaagacc caggcccgtc tccactcata cacgccacct acatgtgacg tcagccctga 120
aaaggtaaca ggaaagttca gaacaaaaac aaaaccccaa aagtaaaaag gctacgtgta 180
gcagagtaat accggaaacg ttatatacac aggcggtgat ggccccctcg gaagtgtccg 240
ggtcacttag ggggcactgc agaggtcctt gtgg 274

<210> 1050
 <211> 472
 <212> DNA
 <213> Homo sapiens

<400> 1050
 ctgcagcctg ggactgaccg ggaggctctg attatattacc caccacaggt aggttgtgtt 60
 ctgaatctca gggttcacagg ttaaggctac agcatcctca tcctccacgg gggttgaggt 120
 gttgctggtg atgaagggtt tgggtggctc tgcatagact gtgatcgtcg tgactgtggt 180
 cctattgagg ccagtgtctg agttatgggc ttggcacgta taggatccac tattattcac 240
 agtgatgttg gggataaaga gctcttgggt ggattgctgg aaagtcccat tgacaaacca 300
 agagtactgt gcagggtgggt tagaggctgc gtggcaggag aggttcagat tttcccctga 360
 tctgtaagat gtgttttagag gggaaatggt gggggcatcc gggccataga ggacattcag 420
 gatgactgaa tcactgcgcc tggcactcac tgggttctgg gtttcacatt tg 472

<210> 1051
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 1051
 ccaccaaccg tggcatcacg cgaatccggg gcaccagcta ccagagccct cacggcatcc 60
 ccatagacct gctggaccgg ctgcttatcg tctccaccac cccctacagc gagaaagaca 120
 cgaagcagat cctccgcata cgggtgcgagg aagaagatgt ggagatgagt gaggacgcct 180
 acacggtgct gaccgcatac gggctggaga cgtcactgcg ctacgccatc cagctcatca 240
 cagacctgc 249

<210> 1052
 <211> 289
 <212> DNA
 <213> Homo sapiens

<400> 1052
 ccaggaccac aaccccacgc tgtagctggt agcgcagggc aatcagggct ggggttcgct 60
 tgtgcttttt tgccaaggca caaaggactg ggtcctccaa gagcaccggg gagttcgggt 120
 ccaccatcgt tttgtctcgt tgagatccca gagcactata ggcaaccaga acaatatctt 180
 tcgacttgca gaaatctagc aatttactcc ggttgaaata cggatgacat tctacctggt 240
 tgcagacagg cttgtacttg agtcctggct tgttgaggat catctccag 289

<210> 1053
 <211> 199
 <212> DNA
 <213> Homo sapiens

<400> 1053
 ccacgactgc atgcccgcgc ccgccagggtg atacctccgc cggtgaccca ggggctctgc 60
 gacacaagga gtctgcatgt ctaagtgcta gacatgctca gctttgtgga tacgcggact 120
 ttgttgctgc ttgcagtaac cttatgccta gcaacatgcc aatctttaca agaggaaacc 180
 gtaagaaagg gccccagccg 199

<210> 1054
 <211> 224
 <212> DNA
 <213> Homo sapiens

<400> 1054

```

tcgaccctgt gaagcaggag acagatgctg catttttcaact gttgtttgtc ctctgttttt 60
gtagcatccc cgggaacttc cccatcagcc aggggcttgt cccaccacc cttcacctgg 120
ctttccagtt ggctgagacg ctgcttcac ttcattctggg tggcgttgta ctcagccagg 180
aggcgtgcaa acctggtctg cagggcgtcc agggaggacc ccag 224

```

<210> 1055

<211> 390

<212> DNA

<213> Homo sapiens

<400> 1055

```

cctcttatta gggctctggt agcggcggcg gcggaccctt ggggtctgga cgcaacggcg 60
gcgggagcat gaacgcccct ccagccttcg agtcgttctt gctcttcgag ggcgagaaga 120
agatcaccat taacaaggac accaaggtac ccaatgcctg tttattcacc atcaacaaag 180
aagaccacac actgggaaac atcattaaat cacaactcct aaaagacccg caagtgtctat 240
ttgctggcta caaagtcctc cacccttgg agcacaagat catcatccga gtgcagacca 300
cgccggacta cagccccag gaagcctttg ccaacgccat caccgacctc atcagtgagc 360
tgtccctgct ggaggagcgc tttcgggtgg 390

```

<210> 1056

<211> 450

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 21, 22, 230, 232, 377, 391

<223> n = A,T,C or G

<400> 1056

```

ccagcatcac ctttttggtcc nnacactcca gggetgccag gagcaccagt gttacccgca 60
ggacctgggg gcccatcctt gcctggagaa ccgctgggac ctgggggtcc tgggttacca 120
ttactaccag gaggaccagg aagaccacga gcaccaggga agccagcagc accaggtcca 180
ccaggactgc caggttcacc tttgacacct tggggaccag gaggaccagn angtccagaa 240
cctccagggg gtcctgcaac tccaggaggg cctccttcac ctttctcacc cggagcccct 300
ctttctcctt taccaccagg ttcaccattc tgtccaggag caccaggga accagcaggt 360
cctggagggc cagtttnacc tctctcacca nggetaccac gaggtccagc tatacctgga 420
agtcggggg caccacctc acccttacct 450

```

<210> 1057

<211> 337

<212> DNA

<213> Homo sapiens

<400> 1057

```

tgagcggccg cccggcaggt cctcgcttgg agggccccgg gcagcacagg gaggacgagc 60
ttgtccagca gagggtctgg cagaggggtc cgcagaggtt tgggcagggg gtctgacatc 120
cctggctcct gctctggctc tggctgccgg gatttgcaca ggcccagggtg catacagatg 180
ccgtttgagt caatctggtt ctggaagtag tcgatgacca gggggaagta gtctcaagc 240
acttggttgc actggggcat gagcagcttc aaggggagga cgttgactc ctgctccagg 300
aacttcctca tcgtgtcctg gaaaatggcc tccttgg 337

```

<210> 1058
 <211> 237
 <212> DNA
 <213> Homo sapiens

<400> 1058
 ctggggactg ggaatgctag catatgggtat ctcaagttgg ctctcagaac taaacgggga 60
 taagggccta gaatggaaga gggaaccagc cagaccctca gtccttcctg tectggactg 120
 ggagccacag atgtccctgt gatctgtcac tgccctgac tgggtcttca gccattaaag 180
 ctcaagtgtca tcttcagtca ccaacggggg tcttggtgtc cttccaaacc cctttgg 237

<210> 1059
 <211> 210
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 169, 170
 <223> n = A,T,C or G

<400> 1059
 agcccatccc cccggctccc tcttagtctg ccctgcgtcc tctgtccccg ggtttcagag 60
 acaacttccc aaagcacaaa gcagtttttc ccctagggg tgggaggaag caaaagactc 120
 tgtacctact ttgtatgtgt ataataattt gagatgtttt taattattnn gattgctgga 180
 ataaagcatg tggaaatgac ccaaaaaaaaa 210

<210> 1060
 <211> 564
 <212> DNA
 <213> Homo sapiens

<400> 1060
 ctggccacag agcccagcaa gtccttcctg ggagagaaga gttagggctg atactgaagg 60
 tctctttcac atctgggcac acgtctgcct tcaggctgta agaatttcat ttgtcgattg 120
 ttaaataaaa ccaggagaaa gcaatgcagg tctctgggaa tctcatccct tccataagga 180
 aaatgctctg ccaattcaag ttctattcag tcaggaagac agaaggattt aaggcttcgg 240
 tgacaattat aatcctctga gaaattatth ccccttaaag tcaagataag ataatagtgt 300
 ttactgtact ttctcttgac tcttgaaatc cctgggtattg ggtgtaggca acttgcacct 360
 gcaatgaagt ccgcaggaga ggaagggtct tcttcccccg aaagctatcc caggtcacat 420
 gcgtggcgaa tgcccactga acctcggtc tcattggaagc aggaaagaca ccgagattca 480
 agccttctag taggttgagg acgtctgtgt catggcatct tcggagattt tgggtactggc 540
 aggggtggat gcttgcaaaa tact 564

<210> 1061
 <211> 267
 <212> DNA
 <213> Homo sapiens

<400> 1061
 cctatggagg tgccatgat gtcattgagct ctaagcacct ttgtggtgat accaactatg 60
 cctggcccac cgcagagatt gcgggtcatgg gagcaaaggc cgctgtggag atcatcttca 120
 aagggcatga gaattgtgaa gctgctcagg cagagtacat cgagaagttt gccaacctt 180
 tccctgcagc agtgcgaggg tttgtggatg acatcatcca accttcttcc acacgtgccc 240

gaatctgctg tgacctggat gtcttgg

267

<210> 1062

<211> 603

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 533, 592

<223> n = A,T,C or G

<400> 1062

```
ctggtcatct tgtcatgtga agaccatctt cctacagagt ctaggctggc cgtcgttgaa 60
gtcctcacca gtactacacc acttttcttc accaaccccc atcctattct tgagttgcag 120
gatacacttg ctctctggaa gtgtgtcctt acccttctgc agagtgagga gcaagctgtt 180
agagatgcag ccacggaaac cgtgacaact gccatgtcac aagaaaatac ctgccagtca 240
acagagtttg ccttctgcca ggtggatgcc tccatcgtc tggccctggc cctggccgtc 300
ctgtgtgatc tgctccagca gtgggaccag ttggcccttg gactgcccac cctgctggga 360
tggctgttgg gagagagtga tgacctcgtg gcctgtgtgg agagcatgca tcaggtggaa 420
gaagactacc tgtttgaaaa agcagaagtc aacttttggg ccgagaccct gatctttgtg 480
aaatacctct gcaagcacct cttctgtctc ctctcaaaag tccggctggc gtnccccaag 540
ccctgagatg ctctgtcacc ttcaaaggat ggtgtcagag cagtgccacc tncgtgtctca 600
gtt 603
```

<210> 1063

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1063

```
ccatcgtgga tcaactgagat gcagtggcgg tccccgtagc tggcccgtgg catgccaccc 60
tggaagatgg tgaagggcaa cccctgccta gtggtcagcc ggaggattct ggtaatcgct 120
ttgcaaggaa agggaccgta aggcacgagg ctgcggaggg gctctgggtg ctgggcttcg 180
ctggacacgg gccactggca gtagctgccg tcagagtgcag ag 222
```

<210> 1064

<211> 72

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 13, 14

<223> n = A,T,C or G

<400> 1064

```
gatgatcaat atnnactgga acacatgcat gcttttggaa tgtataatta cctgcactgt 60
gattcatggt at 72
```

<210> 1065

<211> 251

<212> DNA

<213> Homo sapiens

<400> 1065

```

gtggccgtga tggatagcga caccacaggc aagctgggct ttgaggaatt caagtacttg 60
tggaacaaca tcaaaagggtg gcaggccata tacaaacagt tgcacactga ccgatcaggg 120
accatttgca gtagtgaact cccaggtgcc tttgaggcag cagggttcca cctgaatgag 180
catctctata acatgatcat ccgacgctac tcagatgaaa gtgggaacat ggattttgac 240
aacttcatca g                                     251

```

<210> 1066

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1066

```

ctggagatga tcctcaacaa gccagggtc aagtacaagc ctgtctgcaa ccagggtggaa 60
tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattggt 120
ctgggttgctt atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
ccagtgtctt tggaggaccc agtcctttgt gccttggcaa aaaagcacia gcgaacccca 240
gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggtcctgg 289

```

<210> 1067

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1067

```

ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agagggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggt agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctccgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g                                     301

```

<210> 1068

<211> 255

<212> DNA

<213> Homo sapiens

<400> 1068

```

ccagcagttc ctcttttgct tatattttgtg gtacgcccgg ccagccttca agatggggttt 60
gtcaattcgg ccacctccag ccaccacacc aaccacagct ctgttggtg aggagataac 120
cttcttgagg ccggagggca gcttcacacg ggtcttcttg gtctcagggt tgtgggagat 180
aacggtggca tagttccctg atgcccgggc cagcttgcca cggctctccag gcttctcctc 240
caggcagcac acgat                                     255

```

<210> 1069

<211> 77

<212> DNA

<213> Homo sapiens

<400> 1069

```

ctggacaggc tccagcaccg gcccaaacac gcccagacct cggcaggcac cacctgggttc 60
tcccacccag aaagttc                                     77

```


<210> 1070
 <211> 163
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 12, 108, 109, 137, 147, 148
 <223> n = A,T,C or G

<400> 1070
 ctgctgggat gnctgccaag tttttcagcc ataaggtagc gaaatctagc agaatccaga 60
 ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttnna ggtaacatac 120
 gtaagaatgt ccactgngtt ggaaacnnca attatgatgc aat 163

<210> 1071
 <211> 246
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 14
 <223> n = A,T,C or G

<400> 1071
 ctgaccggac cggncatgcc cgtccggaac gtctataaga aggagaaagc tcgagtcac 60
 actgaggaag agaagaattt caaagccttc gctagtctcc gtatggcccg tgccaacgcc 120
 cggctcttcg gcatacgggc aaaaagagcc aaggaagccg cagaacagga tgttgaaaag 180
 aaaaaataaa gccctcctgg ggacttggaa tcagtcggca gacaaaaaaa aaaaaaaaaa 240
 aacaaa 246

<210> 1072
 <211> 224
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 143
 <223> n = A,T,C or G

<400> 1072
 ctgccctgac agagcgctcc ttgatgggca tggactggaa aggatcccag gaatacaaga 60
 aggcagaaaa aaaagtttgg aagatcttta aatctgacag tgaagtggct ggttacatcc 120
 ggcaagcggg tgacttccat cangtaatta ttcgaggtgg aggacatatt ttaccctatg 180
 accagcctct gagagctttt gacatgatta atcgattcat ttat 224

<210> 1073
 <211> 301
 <212> DNA
 <213> Homo sapiens

<400> 1073

```

ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

```

```

<210> 1074
<211> 132
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 41, 47, 56, 69, 78, 93
<223> n = A,T,C or G

```

```

<400> 1074
caagcttttt tttttttttt tttttttttt ttcgctcaaa nactttnttt tattantaca 60
tgggctggna ttgatggnaa gggacaaatg tanttggcaa ccatgggttag catcggatgc 120
ccatcccaat gg 132

```

```

<210> 1075
<211> 301
<212> DNA
<213> Homo sapiens

```

```

<400> 1075
ctgtagttga ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcagg 120
caaagctctc catgttaata ttcattctgaa tatggataat taggggtggct agcaaaacta 180
tcactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

```

```

<210> 1076
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<400> 1076
ctgctgggat gaatgccaag tttttcagcc ataaggtagc gaaatctagc agaatccaga 60
ttacatccac ttccaatcac gcggtgtttg ggtaatccac ctagtttcca ggtaacatac 120
gtaagaatgt ccaactgggtt ggaaaccaca attatgatgc aatcaggact gtacttgacg 180
atctgaggaa taatgaattt gaagacatta acatttctct gcaccagatt gagccgactc 240
tccccttctt gctgacggac tctgcagtt actactacaa tcttagaatt ggcggtcaca 300
gaataatctt tatctgccac aatttttaggt gtctgaagaa ataagctccc atgctgcaga 360
tccatcattt ctcttttaag cttatcttcc aaaacatcca caagagcaag ttcattcagcc 420
agagactttc ccagaa 436

```

```

<210> 1077
<211> 256
<212> DNA
<213> Homo sapiens

```

<400> 1077

```
ctgaagatta ataggaaaca gtgaaaaagc aacgtcctgt gatcagtaac tttaaagaca 60
agcttggttc tctctttctg gcactactga cattcccacc attctagctt ccgaattctg 120
gaaaaagaga agatgattaa caaaaataga gaatgtagaa acttctgggtt ttgtgcctac 180
aggattggca ccagaccctc agtgctcact tgctccatct acaaggcagc acccctccca 240
gaggcagcca gggagg                                     256
```

<210> 1078

<211> 202

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 10, 26, 67, 71, 77, 84, 93, 127, 133, 144

<223> n = A,T,C or G

<400> 1078

```
ctgtgctncn caaccagatc catgtnaagt gccccgcccc gagaagggag ccaggggggag 60
ctgactncag ncaacancca gtgnccggat gancaccaac atgtgagggg tgaaccttgg 120
cctccangac atntgcaccc cctncccacc tccacggacc tcggacctcc aggcgggctca 180
gtgctgcttg cggccagct aa                                     202
```

<210> 1079

<211> 170

<212> DNA

<213> Homo sapiens

<400> 1079

```
gcgcttctcg ggcaccgtca ggcttaagtc cactccccgc cctaagttct ctgtgtgtgt 60
cctgggggac cagcagcact gtgacgaggg taaggccgtg gatatcccc acatggacat 120
cgaggcgctg aaaaaactca acaagaataa aaaactggtc aagaagctgg 170
```

<210> 1080

<211> 494

<212> DNA

<213> Homo sapiens

<400> 1080

```
cctgcggcaa agagatgcgc ttattgagaa acatggctta gttataatcc ccgatggcac 60
tcccaatggt gatgtcagtc atgaaccagt ggctggagcc atcactgttg tgtctcagga 120
agctgctcag gtcttgaggt cagcaggaga agggccatta gatgtaaggc tacgaaaact 180
tgctggagag aaggaagaac tactgtcaca gattagaaaa ctgaagcttc agttagagga 240
ggaacgacag aaatgctcca ggaatgatgg cacagtgggt gacctggcag gactgcagaa 300
tggctcagac ttgcagttca tcgaaatgca gagagatgcc aatagacaaa ttagcgaata 360
caaatttaag ctttcaaaaag cagaacagga tataactacc ttggagcaaa gtattagccg 420
gcttgaggga caggttctga gatataaaac tgctgctgag aatgctgagg aaagttgaag 480
atgaattgaa agca                                     494
```

<210> 1081

<211> 123

<212> DNA

<213> Homo sapiens

<400> 1081

```

ctgctgctat taagttgcaa gctctacagc tagctacatg actgatggat cagtttgaga 60
tttgttccct tgtcaaaagt ttaactctga tagaagggtg gcctcacatt ctgatgtttg 120
gac 123

```

<210> 1082

<211> 297

<212> DNA

<213> Homo sapiens

<400> 1082

```

cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccgt 120
caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtctgg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

```

<210> 1083

<211> 452

<212> DNA

<213> Homo sapiens

<400> 1083

```

ctggggccacg aggacaccac cagcttggat cggcctcgcc gtgtggaata ctttgtagat 60
aagcaactcc aagtaaaggc tgtcacctgt gggccgtgga acacctacgt gtatgctgtg 120
gagaaagggg agagctgaca tgtgtacgta tatgtatatg caacacctgt gagaccccca 180
ttcagggtcaa ggaaaaccat tgacctgcacc ccaaggggccc catatttgcc cctccccatc 240
acagtcctgc ctttcaccct caagcacggt cctaaacttg tctgcacttt agaaacacct 300
ggagagcatt gaaaactctg ctgcctaagg tcagcatcaa tcaaaacaat gaaatcaatg 360
aaacaatgaa accagagctt ctaggtgtgt ggcttgata gtggttagatt caaagctcca 420
cccacctcat ccaggtaca tttgatgtgc ag 452

```

<210> 1084

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1084

```

ctgtagttag ctgaagtcgc taaacaggac ggattttaagt agaggtgata tgtccagtca 60
ccggcataga gacgtcctct gcgtcaccat ccacacacag ggcttctggg agacatcggg 120
caaagctctc catgttaata ttcactctgaa tatggataat tagggtggct agcaaaacta 180
tcaactgttaa aatagtggag atttctgtct aggccatcta tggctttcat gtcctctgca 240
gtcaactgga actcaaaaac ctgcacgttc tgtctgatgc gctgctcatt gtagctcttg 300
g 301

```

<210> 1085

<211> 369

<212> DNA

<213> Homo sapiens

<400> 1085

```

ctgtttccca tggggccacca ggcggctcag gacagcaaac gtctcatccc ctctcaggat 60
gtacttctcc atgtcctgct cgatccactg gtacatgagg ccttcacat gcacgtctcg 120

```

```

gatggcgtec gtcacgtcct tgtagagatg tgcttggtca aactccaggc tgtggcccag 180
aaagtagtcc accacacagg acagcagagc catctccggt agcgagaaga tgtccatgaa 240
ctgcttaatg gagggaccct tgccatagaa gccactcatc tggatatagt ggatgtgctg 300
ggtacccccca tacagctcaa tcacctcctc gtctggcaca ggctggaggg ccctgtaggc 360
tgtccccag                                     369

```

```

<210> 1086
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1086
cctcagaggt ttctccacag tcctcttctg ggcaaattct tgtttcttca catgccggac 60
tagcttaaga ccaatgcagt agcttatttc caagccttgc aaagtatata atatctaaga 120
ggaaagggtt tgteatccca gcgttggtcca ctttgtgggg ctttgtagggt agacggagcc 180
aactacagg cagggatga gcagagggat gtatggagtg tgggtgactc tgagcctcac 240
tgccgctgca aggtggggaa actgtaagtg aaccctctgt ggtgcggggg agggatatccg 300
gtgcgcaggg aggtgg                                     316

```

```

<210> 1087
<211> 329
<212> DNA
<213> Homo sapiens

```

```

<400> 1087
cctgcagggg atgggacctt ccagaagtgg gcgtctgtgg tgggtgccttc tggacaggag 60
cagagataca cctgccatgt gcagcatgag ggtctgccc aagccctcac cctgagatgg 120
gagccgtctt cccagcccac catccccatc gtgggcatca ttgctggcct gggttctctt 180
ggagctgtga tcgctggagc tgtgggtcgt gctgtgatgt ggaggaggaa gagctcagat 240
agaaaaggag ggagctactc tcaggctgca agcagtgaca gtgcccaggg ctctgatatg 300
tctcccacag cttgtaaaagt gtgagacag                                     329

```

```

<210> 1088
<211> 342
<212> DNA
<213> Homo sapiens

```

```

<400> 1088
ccactcactg ctgggaccca ggcacctccc ttctccatcc tctctggatt gtcagtaatg 60
tcctggaaca gaagcctgtg ggatggcctt gggcacggag aagccctggg gtcagtgtcg 120
tgcacggatg gcggcagtgt tgaacccagg aggetgaacc cggcccacca cggaagatga 180
gtgcatggca accgcctgcc ttacgctgc tccacttggg aaccccaagg tctgggctgt 240
tctaggtatt gcttcacgtg ccccagcaag cccttaacaa gagggcctgg ttccctgaag 300
aaccaatccc aggaaggggc cttgatccct ccgccttgct ga                                     342

```

```

<210> 1089
<211> 51
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 18
<223> n = A,T,C or G

```

<400> 1089
ccttgtgttc agtctccnccg ctcttcttgc cactgttgag ggtggagatg t 51

<210> 1090
<211> 515
<212> DNA
<213> Homo sapiens

<400> 1090
cctggggagg ccctagggga gcaccgtgat ggagaggaca gagcaggggc tccagcacct 60
tctttctgga ctggcggttca cctccctgct cagtgccttg gctccacggg caggggtcag 120
agcactccct aatttatgtg ctatataaat acgtcagatg tacatagaga tctatttttt 180
ctaaaacatt cccctcccca ctctctctcc acagagtgcg ggactgttcc aggccctcca 240
gtgggctgat gctgggaccc ttaggatggg gctcccagct cctttctcct gtgaatggag 300
gcagagacct ccaataaagt gccttctggg ctttttctaa cctttgtctt agctacctgt 360
gtactgaaat ttgggccttt ggatcgaata tggcgaagag gttggagggg aggaaaatga 420
aggtctacca ggctgagggt gagggcaaag gctgacgaag agggaaagtt acagatttcc 480
tgtagcaggt gtgggcttac agacacatgg actgg 515

<210> 1091
<211> 277
<212> DNA
<213> Homo sapiens

<400> 1091
gcgtcccga gccacgggtg gtcattggctg ccagagcgct ctgcatgctg gggctgggtcc 60
tggccttget gtcctccagc tctgctgagg agtacgtggg cctgtctgca aaccagtgtg 120
ccgtgccagc caaggacagg gtggactgcg gctaccccca tgtcaccccc aaggagtgc 180
acaaccgggg ctgctgcttt gactccagga tccctggagt gccttgggtg ttcaagcccc 240
tgcaggaagc agaatgcacc ttctgaggca cctccag 277

<210> 1092
<211> 368
<212> DNA
<213> Homo sapiens

<400> 1092
cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tctggggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300
acctcaagga tcctcctgcc tcggcctcct aaggtgctgg gattgcaggt gtgagccacc 360
acgtctgg 368

<210> 1093
<211> 459
<212> DNA
<213> Homo sapiens

<400> 1093
ctgtgcatgg agccatttgg atggcggcgg gcgggggggg attctctgta tcaggagtga 60
ctttgttgcc ccacacagcc tcctgctgca ggtgctttgg aaagagatgc tgccttggag 120

```

ctggtgaatc tgtggaccac attcaagggg gtggcacagg catcttccca tccttttcac 180
tccgaatcgc tggcgacaca ttctcctttc cagctaggaa agggttcctc gcggctgggt 240
tagattgtgg ttgtttgttt tgcttctact aagactgttt tgtttcaaaa aggaaacaag 300
ttttgtgttt gctgtctacg ctggagtcct gaactgtggg tagaaaacac gacctggctt 360
tgtagaaagg acacaggggt gttttatgaa ctaagcgggt aggcctcaggt ggcggctctc 420
acagagcccc tgatgctgtt gttctttgag ggcttaagg 459

```

```

<210> 1094
<211> 610
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 590
<223> n = A,T,C or G

```

```

<400> 1094
ccatgcaaaa ggaggtgggt cactcagtcg agtcgctgcc acaaaaagtc cgattatttt 60
cattggtaca ggggaacata tagatgactt tgaacctttc aaaacacagc cttttattag 120
caaacttctt ggtatgggag acattgaagg actgatagat aaagtcaacg agttgaagtt 180
ggatgacaat gaagcactta tagagaagtt gaaacatggt cagtttacgt tgcgagacat 240
gtatgagcaa tttcaaaata tcatgaaaat gggccccctc agtcagatct tggggatgat 300
ccctgggtttt gggacagatt ttatgagcaa aggaaatgaa caggagtcaa tggcaaggct 360
aaagaaatta atgacaataa tggatagtat gaatgatcaa gaactagaca gtacggatgg 420
tgccaaagtt tttagtaaac aaccaggaag aatccaaaga gtagcaagag gatcgggtgt 480
atcaacaaga gatgttcgag aacttttgac acaatatacc aagtttgac agatggtaaa 540
aaagatggga ggtatcaaag gacttttcaa aggtgggcga catgtctaan aatgtgagcc 600
agtcacagat 610

```

```

<210> 1095
<211> 232
<212> DNA
<213> Homo sapiens

```

```

<400> 1095
ccttattttct cttgtccttt cgtacagggg ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctgtt atccctaggg taacttgttc cg 232

```

```

<210> 1096
<211> 377
<212> DNA
<213> Homo sapiens

```

```

<400> 1096
ccacgctcat ggaaaccacc caaggacagc cagagtccac attccctggc aagctgggtg 60
tattcttcca aaagtttccc acccagtggt tcagacaggt gtagecgtctc tgcaggggtc 120
cgtgcaatga agtcaaagtc ctccagcagg aaagccaggc aggcacccag tctggcagcc 180
tctcgaacca gccacgcaca tggttttaaag ttctgttgct tgtctggcgt cgatgttacc 240
tggcacacag ccaccagggg cagttcgcag gaggaagagg agatagccat ggctctgggc 300
ctgggctgag cacaaagtac tgagagttga ggtatccgga gtccaggaca cagaagggac 360
aggaatctgt gaggagg 377

```

<210> 1097
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 1097
 ccacgccatg gggctggagc actcccaaga ccctggggcc ctgatggcac ccatttacac 60
 ctacaccaag aacttccgtc tgtcccagga tgacatcaag ggcattcagg agctctatgg 120
 ggcctctcct gacattgacc ttggcacccg cccaccccc acactggggc ctgtcactcc 180
 tgagatctgc aaacaggaca ttgtatttga tggcatcgct cagatccgtg gtgagatctt 240
 cttcttcaag gaccggttca tttggcggac tgtgacgcca cgtgacaagc ccatggggcc 300
 cctgctggtg g 311

<210> 1098
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 1098
 ccacccacgc ttaggttccc atcacactga tgactccggg tttggcgagc acaggagcgc 60
 aaaccttttc acattctttc tgtgatccaa atttgttttc gtttccacca caacctccat 120
 accagaatct tgcacagctt ttggtgtttg gatcatagta ccattttaat atgaaatccc 180
 tgcaagtccc ttcgtctttc ggcaacttgc atatatctgt ttcagtgaga gccaatgggt 240
 ctgtgctcac cattagattg atggttgaac tagaagctga ccttgctggc tgtggaggtg 300
 ggggctgaga tttcttttga ctgaaacttc cgtggtaggt ggctctgacc tgagacctca 360
 ggtagcagac cacagccaca tggatatgtc gccacgcgag cagg 404

<210> 1099
 <211> 442
 <212> DNA
 <213> Homo sapiens

<400> 1099
 ccatgggatg gctcttctga ccattggggg ccaggccagg ccaggccagg cttagggtag 60
 caaggaccag gccaaagggg cagggcctcc tttggagggg ttgaggggta catcctcggc 120
 tgggtgtttgc atccaggggt ccagcaggat ctcttccagt gagggtcggg aagaagggtt 180
 gggggccagg caccggcgga ttagggcaca gcagtctggg gagacatggg ctgggaagtg 240
 gagctcagct tccagaatct cctgggtccct ctcaaagga atgtccccac acaccatgtc 300
 atagaggagg atgccagtg accagacagt ggccgggagt gcatgggtact ggtgtcgaga 360
 gatccactct ggggggctgt acacccttgt cccatcaaag tcagtgtagg gttcatcatg 420
 aagcagggca ccaggaacca aa 442

<210> 1100
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1100
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cgggcccatac 60
 ccaataacca ggtgcttggc aaaatcgagc gggccatttg cctcaagctc cggggaaagg 120
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180
 gtgcgctcca g 191

<210> 1101
 <211> 178
 <212> DNA
 <213> Homo sapiens

<400> 1101
 cgggtacttt ggtggacatg aaggaactgg gcatatggga gccattggct gtgaagctgc 60
 agacttataa gacagcagtg gagacggcag ttctgctact gcgaattgat gacatcgttt 120
 caggccacaa aaagaaaggc gatgaccaga gccggcaagg cggggctcct gatgctgg 178

<210> 1102
 <211> 209
 <212> DNA
 <213> Homo sapiens

<400> 1102
 agccaggcta gtgacagaaa tggattcgaa atatcagtgt gtgaagctga atgatgggtca 60
 cttcatgcct gtccctgggat ttggcaccta tgccgctgca gaggttccta aaagtaaagc 120
 tttagaggcc accaaattgg caattgaagc tggcttccgc catattgatt ctgctcattt 180
 atacaataat gaggagcagg ttggactgg 209

<210> 1103
 <211> 396
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 351
 <223> n = A,T,C or G

<400> 1103
 ctatagggct cgagggccgc ccgggcaggt ggtgcctcta atactgggtga tgctagaggt 60
 gatgtttttg gtaaacaggc ggggtaagat ttgccgagtt ccttttactt tttttaacct 120
 ttccttatga gcatgcctgt gttgggttga cagtgggggt aataatgact tggtgggttga 180
 ttgtagatat tgggctgtta attgtcagtt cagcgtttta atctgacgca ggcttatgca 240
 gaggagaatg ttttcatgtt acttatacta acattagttc ttctataggg tgatagattg 300
 gtccaattgg gtgtgaggag ttcagttata tgtttgggat tttttaggta ntgggtggtg 360
 agcttgaacg ctttcttaat tggtggctgc ttttagg 396

<210> 1104
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 224, 226, 302
 <223> n = A,T,C or G

<400> 1104
 ctgctgatac ccaggcagta gctgatgctg tcacctacca gctcgggtttc cacagcattg 60
 aactgaatga gcctccactg gtccacacag cagccagcct ctttaaggag atgtgttacc 120
 gataccggga agacctgatg gcgggaatca tcatcgacag ctgggaccct caagaaggag 180

ggcaggtgta ctcagtgcct atgggggggta tgatggtaag gcantncttt gccattggag 240
 gctccgggag ctcctacatc tatggctatg ttgatgctac ctaccgggaa ggcatgacca 300
 angaagagtg tctgcaattc actgccaatg ctctcgcttt gg 342

<210> 1105
 <211> 551
 <212> DNA
 <213> Homo sapiens

<400> 1105
 ctggggccac tgtcggcacc atgattggag tgctgggttg ggttgctctg atatagcagc 60
 cctgggtgtag tttcttcatt tcaggaagac tgacagttgt tttgcttctt ccttaaagca 120
 tttgcaacag ctacagtcta aaattgcttc tttaccaagg atatttacgg aaaagactct 180
 gaccagagat cgagaccatc ctagccaaca tcgtgaaacc ccatctctac taaaaataca 240
 gaaattagct ggacatgggtg gcatgtgcct gtaatcccag ctactcagga ggctgaggca 300
 ggagaactgc ttgaacaggg acccgggagg cggagattgg agtgagccga gatcgcgcca 360
 ctgcactcca gtctgggcta cacagtgaga ctctgtctca agaaaaataa acagaagaat 420
 tggggggttg ggggtgggaaa cagtgtttcc aggcagagag aacagcacgt acaaaggaga 480
 ctggtgggag ggttaaataa aataattcat gtaaggtact tagtaccaca catgaatttc 540
 acaagcagca g 551

<210> 1106
 <211> 280
 <212> DNA
 <213> Homo sapiens

<400> 1106
 ctgctcttca cacagggttc tggggaaaac aaggaagaga tcatcaatta tgaatttgac 60
 accaaggacc tgggtgtgctt gggcctgagc agcatcggtt gcgtctggta cctgctgagg 120
 aagcactgga ttgccaacaa cctttttggc ctggccttct cccttaatgg agtagggctc 180
 ctgcacctca acaatgtcag cactggctgc atcctgctgg gcggactctt catctacgat 240
 gtcttctggg tattttggcac caatgtgatg gtgacagtgg 280

<210> 1107
 <211> 570
 <212> DNA
 <213> Homo sapiens

<400> 1107
 ctgattagtg tctaaggaat ggtccaatac tgttgccctt ttccttgact attacactgc 60
 ctggaggata gcagagaagc ctgtctgtac ttcattcaaa aagccaaaat agagagtata 120
 cagtcctaga gaattcctct atttgttcag atctcataga tgacccccag gtattgtctt 180
 ttgacatcca gcagtccaag gtattgagac atattactgg aagtaagaaa tattactata 240
 attgagaact acagctttta agattgtact tttatcttaa aagggtggta gttttcccta 300
 aaatacttat tatgtaaggg tcattagaca aatgtcttga agtagacatg gaatttatga 360
 atggttcttt atcatttctc ttcccccttt ttggcatcct ggcttgccct cagttttagg 420
 tccttttagtt tgcttctgta agcaacggga acacctgctg agggggctct ttccctcatg 480
 tatacttcaa gtaagatcaa gaatcttttg tgaaattata gaaatttact atgtaaatgc 540
 ttgatggaat tttttcctgc tagtgtagct 570

<210> 1108
 <211> 386
 <212> DNA
 <213> Homo sapiens

<400> 1108

```

ctgttctctgc ggtgacactg tataaacacg atgaccctgc cttgacttta gttgctgggc 60
ttacatcaaa taagcccaca gacaaactcc gtgccctgcc tctgtgggta tctttacaat 120
acttgggact tgatggggtt gtggagagga tcaagcatgc ctgtcaactg agtcaacggc 180
tgcaggaaag tttgaagaaa gtgaattaca tcaaaatctt ggtggaagat gagctcagct 240
ccccagtggg ggtgttcaga tttttccagg aattaccagg ctcatgccg gtgttttaaag 300
ccgtcccagt gcccaacatg acaccttcag gagtcggccg ggagaggcac tcgtgtgacg 360
cgctgaatcg ctggctggga gaacag                                     386

```

<210> 1109

<211> 409

<212> DNA

<213> Homo sapiens

<400> 1109

```

ctctgggtctg taaccagtct cttcaaggca ttatctctctg gggccaggat ccgtgtgcga 60
tcacccgaaa gcctgggtgc tacacgaaag tctgcaaata tgtggactgg atccaggaga 120
cgatgaagaa caattagact ggacccaccc accacagccc atcacctcc atttccactt 180
ggtgttttggg tctgtttcac tctgttaata agaaacccta agccaagacc ctctacgaac 240
attcttttggg cctcctggac tacaggagat gctgtcactt aataatcaac ctgggggttcg 300
aaatcagtga gacctggatt caaattctgc cttgaaatat tgtgactctg ggaatgacaa 360
cacctgggtt gttctctgtt gtatccccag ccccaaagac agctcctgg                                     409

```

<210> 1110

<211> 215

<212> DNA

<213> Homo sapiens

<400> 1110

```

ccatttttggg gtgtgtccat tgggtagcaa tgtggaaacc accagggcct ttgtggagaa 60
aatggagggg gttgaggagg tcccaggagg ggcttatttg agggcctttg ccacttgctc 120
ataggcgagc tcgatctcct catcatctgg acagggtggaa gcgaattctt cccgggacga 180
ggcattgctc aagtaccgat gcactccccg gaagg                                     215

```

<210> 1111

<211> 308

<212> DNA

<213> Homo sapiens

<400> 1111

```

cctgggcccg ctgacttcag ggtgaggcca cagctactgc agcgcttttt atttatttat 60
ttatttactg agatggagtc ttgctctgtc acccaggctg gagtgcagtg gtgcaatctc 120
ggctcactgc aacctctgcc tctgtggctg cagtgattct cctgcgttca agtaattctc 180
ctgcctcggc cttctgagta gttgggatta caggcatatg ccaccacact tggctaattt 240
tttgtatttt tagtagaaat ggggtttcac catgttggcg aggctggtct cgaactcctg 300
acctcaag                                     308

```

<210> 1112

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1112

```

ccactggctc cctggggccag ggccctcgggg ccgcttgttg gatggcctac accggcaaatt 60
acttcgacaa ggccagctac cgagtcctatt gcttgctggg agacggggag ctgtcagagg 120
gctctgtatg ggaggccatg gccttcgccca gcatctataa gctggacaac cttgtgg 177

```

```

<210> 1113
<211> 646
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 529, 580, 622
<223> n = A,T,C or G

```

```

<400> 1113
ccccaccatg gacacacttt gctacacact cctgctgctg accacccctt cctgggtctt 60
gtcccaggtc accttgaagg agtctgggtc tgtactgggt aaaccacacag agaccctcac 120
gctgacctgc accgtctctg gggttttcaact cagtaatatt agagtgggtg tgagttggat 180
ccgtcagccc ccagggaagg ccctggagtg gtttgcatac attttttcga ctgacgaaaa 240
atccttcaat tcatctctga agaacaggct caccatctcc aaggacacct ctaaaagcca 300
ggtgggtcctt agcatgacca acatggaccc tgtggacaca gccacatatt actgtgcacg 360
gctctctatt tacttcgggg agttagaaac ctaccaatac atggacgtct ggggcaaagg 420
gaccaccgcc accgtctcct cagcatcccc gaccagcccc aaggtcttcc cgctgagcct 480
ctgcagcacc cagccagatg ggaacgtggt catcgctgc ctggtccang gcttcttccc 540
ccaggagcca ctcagtgtga cctggagcga aagcggacan ggcgtgaccg ccagaaactt 600
ccccaccag ccaggatgcc tncggggacc tgtacaccac gagcag 646

```

```

<210> 1114
<211> 420
<212> DNA
<213> Homo sapiens

```

```

<400> 1114
tgttggttta ctcacctaac ccttagaaaa tgaatgttag aaggtgcctg ccgaggcggg 60
acagagtgtt cgctcgcgct ggagaaggct ctgctcagcc ctgagagtcc ctccctgccc 120
caccgatact ggcaacttta aaaggaagct gaccgcacag tgtccagacg aattggcccc 180
cagaagatgg ggagttctgt cctgcccttc tgtgtctgct tgacctcacc cagcctagga 240
gggaggtgca ttcagggtag atttgcctct cattcaaagt tctggggctt tgggtggaaa 300
acagccagct ttggcgctgt tggggagact cctccagacc aggaacccca gaaggagaca 360
gagcctgcca catcctccca cgccaggccc tgggccaggg tgattggact gagaatttgg 420

```

```

<210> 1115
<211> 416
<212> DNA
<213> Homo sapiens

```

```

<400> 1115
ctgaaagttt ctaaaataga aacctggtgc atatggcccc aaaacaccac atgctttgat 60
tacactcagg gagcatgagt tgcctatttg ggtgagaaaa tcccatgtta cagtgcgac 120
gctgggcacg ttttgagta attccagcca ctgctatgta agtgttttta attcaggggt 180
gtcttctacg ttttcatctt ctgaatatct tgtgacggtg caggtttgag caaaactggc 240
atgaaatgag agctgtttta gatgaagatt gcaagatgga tggcttggcc cacagtggca 300
gtgggttggg ggtggaatgt ggacaattag gaaaaaggca tgtcattcta tctggctcct 360

```

ggagagggcag atagtcctgg gggctttggt gtcacagttc ccaaaagcaa ggttgg 416

<210> 1116

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1116

```
ccttatttct cttgtccttt cgtacagggg ggaatttgaa gtagatagaa accgacctgg 60
attactccgg tctgaactca gatcacgtag gactttaatc gttgaacaaa cgaaccttta 120
atagcggctg caccatcggg atgtcctgat ccaacatcga ggtcgtaaac cctattgttg 180
atatggactc tagaatagga ttgcgctggt atccctaggg taacttggtc cgttgggtcaa 240
gttattggat caattgagta tagtagttcg ctttgactgg tgaagtctta gcatgtactg 300
ctcggagggt gggttctgct ccgaggtcgc cccaaccgaa aatttttaat gcaggcttgg 360
tagtttagga cctgtggggt tg 382
```

<210> 1117

<211> 370

<212> DNA

<213> Homo sapiens

<400> 1117

```
ctgcgtgtct gaaaaccaa gatttaaaac atagtaatta ttgaacctca gaagaaaaac 60
tcagattgaa agagcttaga ataagaccct ttttgagttg agaaagggtga gtacttagat 120
ttttcatttg ctttgtttgg gattacttac atcagtatth tatgttgatc agaaagaaag 180
gattcaatta gctattgttc gggttaataaa aatgtcagcc actgtaggag taagttggat 240
gtccagcctt tttagattgc ttaacttgga aacactggac tgggagcggg ggctcatgcc 300
tgtgatccca gcaactctggg aggccaaggc aggcagatca ctggagggtca ggagtttgag 360
accaacctgg 370
```

<210> 1118

<211> 494

<212> DNA

<213> Homo sapiens

<400> 1118

```
ctgtctctta cttttaacca gtgaaattga cctgcccgtg aagaggcggg cataacacag 60
caagacgaga agaccctatg gagctttaat ttattaatgc aaacagtacc tgacaaaccc 120
acaggtccta aactaccaga cctgcattaa aaatttcggg tggggcgacc tcggagcaga 180
accaaacctc cgagcagtac atgctaagac ttcaccagtc aaagcgaact actatactca 240
attgatccaa taacttgacc aacggaacaa gttaccctag ggataacagc gcaatcctat 300
tctagagtcc atatcaacaa tagggtttac gacctcgatg ttggatcagg acatcccgat 360
gggtgcagcc ctattaaagg ttcgtttggt caacgattaa agtcctacgt gatctgagtt 420
cagaccggag taatccaggt cggtttctat ctacttcaaa ttcctccctg tacgaaagga 480
caagagaaat aagg 494
```

<210> 1119

<211> 407

<212> DNA

<213> Homo sapiens

<400> 1119

```
ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
```

```

ggagacgatg tcatcatcat cgggggtcttt aaggggggaga gtgaccacgc ctaccagcaa 180
taccaggatg ccgctaacaa cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagtcgg ttgtaatgca gcctgagaaa 300
ttccagtcca agtatgagcc ccggagccac atgatggacg tccagggtc caccagggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tgggttg 407

```

```

<210> 1120
<211> 548
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 513
<223> n = A,T,C or G

```

```

<400> 1120
ccccagagga cccgttgga cccagtggacc tcctggcaaa gatggaacca gtggacatcc 60
aggtcccatt ggaccaccag ggcctcgagg taacagaggt gaaagaggat ctgagggctc 120
cccaggccac ccagggcaac caggccctcc tggacctcct ggtgcccctg gtccttgctg 180
tgggtggtgtt ggagccgctg ccattgctgg gattggaggt gaaaaagctg gcggttttgc 240
cccgtattat ggagatgaac caatggattt caaaatcaac accgatgaga ttatggcttc 300
actcaagtct gttaatggac aaatagaaa cctcattagt cctgatgggt ctcgtaaaaa 360
cccagctaga aactgcagag acctgaaatt ctgccatcct gaactcaaga gtggagaata 420
ctgggttgac cctaaccaag gatgcaaatt ggatgctatc aagggtattc gtaatatgga 480
aactggggaa acatgcataa gtgccaatcc ttngaattgt ccacggaaac actggtggac 540
agattcta 548

```

```

<210> 1121
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 1121
cggccgaggt ccgccatggc gtgtgctcgc ccactgatat cgggtgtactc cgaaaagggg 60
gagtcattct gcaaaaatgt cactttgcct gctgtattca aggctcctat tcgaccagat 120
attgtgaact ttgtttacac caacttgctc aaaaacaaca gacagcccta tgctgtcagt 180
gaattagcag gtcattcagac tagtgctgag tcttggggta ctggcagagc tgtgggtcga 240
attcccagag ttcgagggtg tgggactcac cgctctgg 278

```

```

<210> 1122
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<400> 1122
ctgcagcggc agaggcagca tccagcggcg gcgccagcag ttccagtccg ttgctttact 60
ttttgcttca ccgacatagt cattatgccg aagagaaaagt ctccagagaa tacagagggc 120
aaagatggat ccaaagtaac taaacaggag ccacaagac ggtctgccag attgtcagcg 180
aaacctgctc caccaaaacc tgaacccaaa ccaagaaaaa catctgctaa gaaagaacct 240
ggagcaaaga ttagcagagg tgctaaaggg aagaaggagg aaaagcagga agctggaaag 300
gaaggcacag aaaactgaat ctgtagataa cgaggagaga tgaattgtca tgaaaaattg 360
gggttgattt tatgtatctc ttgggacaac ttttaaaagc tttttttacc aagtattttg 420
taaattgctaa ttttttagga ctctactagt tggcatacga aaatatataa ggatggacat 480

```

tttatcgtct catagtcatg ctttttggaa atttacatca tcctcaagta aaataaatat 540
cagttaaata ttggaagctg tgtgtaagat tgattcagca ttccatgcac t 591

<210> 1123
<211> 454
<212> DNA
<213> Homo sapiens

<400> 1123
ccaattgaaa caaacagttc tgagaccgtt cttccactac tgattaagag tgggggtggca 60
ggtattaggg ataattattca ttttagccttc tgagctttct gggcagactt ggtgaccttg 120
ccagctccag cagccttctt gtccactgct ttgatgacac ccaccgcaac tgtctgtctc 180
atatcacgaa cagcaaagcg acccaaaggt ggatagtctg agaagctctc aacacacatg 240
ggcttgccag gaaccatata aacaatggca gcatcaccag acttcaagaa tttagggcca 300
tcttccagct ttttaccaga acggcgatca atcttttctc tcagctcagc aaacttgcac 360
gcaatgtgag ccgtgtggca atccaataca ggggcatagc cggcgcttat ttggcctgga 420
tggttcagga taatcacctg agcagtgaag ccag 454

<210> 1124
<211> 219
<212> DNA
<213> Homo sapiens

<400> 1124
cctgctccag agcacggctg accattttctg ctccgggata tcagctcccg ttcccccaagc 60
aactcctag ctgctccagt ctcagcctgg gcagcttccc cctgcctttt gcacgtttgc 120
atccccagca tttcctgagt tataaggcca caggagtgga tagctgtttt cacctaaagg 180
aaaagccac ccgaatcttg tagaaatatt caaactaat 219

<210> 1125
<211> 246
<212> DNA
<213> Homo sapiens

<400> 1125
ccagagctgg gccaagctg cgctggaatc gcagcaggag aggggagtg gctgggttctt 60
cccaccactt ccaggtctc gacagccgag actcatttcc aaggcacagc agctttctaa 120
agggactgag tttggactgg gttttggacc tccaggggct ggagcttcat cacctgggca 180
gtgtcttttc tcagagagca ggtttcttta tagtttgga ataaatgggt cacgggttcaa 240
aagaaa 246

<210> 1126
<211> 227
<212> DNA
<213> Homo sapiens

<400> 1126
ccattgttcc cgtgcatcga agcttgcagg cagcttcagg tcctcggtaa acataactct 60
ctgggggtggc ttgggcccac ccaggaaggt accacatagc ctcttcaagt agctcatgtc 120
cacgttgtag aagttgtggc cggcctgccca cgtgggtattc cgtttgttga catagttagc 180
cagctcatcc gacaggggat ggaaagaggg cctgctccgg gcattgg 227

<210> 1127
<211> 377

<212> DNA
<213> Homo sapiens

<400> 1127
cctgccgtcg atgccaggga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tcccagggc gaccagcatc 120
tccattaggt cctcggactc cagcagggcc acttgcacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggagggcccg cagatccagc ttccccatta gggcctctct ttccttcttc 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcaccct tgttaccgct 360
ctctcctttg gagccag 377

<210> 1128
<211> 253
<212> DNA
<213> Homo sapiens

<400> 1128
gagagctatt gctttgttaa gatataaaaa ggggtttctt tttgtctttc tgtaagggtg 60
acttccagct tttgattgaa agtcctaggg tgattctatt tctgctgtga tttatctgct 120
gaaagctcag ctgggggttg gcaagctagg gaccatttcc tgtgtaatac aatgtctgca 180
ccaatgctaa taaagtccta ttctctttta tgagaaagaa aaagacactg tcctttaaaag 240
tgctgcagta tgg 253

<210> 1129
<211> 314
<212> DNA
<213> Homo sapiens

<400> 1129
ccaagagcta caatgagcag cgcctcagac agaacgtgca ggtgtttgaa ttccagttga 60
cttcagagga gatgaaagcc atagatggcc taaacagaaa tgtgcgatat ttgacccttg 120
atatttttgc tggcccccca attatccatt ttctgatgaa tattaacatg gagggcattg 180
catgaggtct accagaaggc cctgcgtgtg gatggtgaca cagaggatgg ctctatgctg 240
gtgactggac acatcgctc tgggttaaate tctcctgctt ggtgatttca gcaagctaca 300
gcaaagccca ttgg 314

<210> 1130
<211> 239
<212> DNA
<213> Homo sapiens

<400> 1130
ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagtcag 60
cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct gcaggcgcag 120
aggtgccaaa tcccaggaca ggcctgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggcta gcaaatgttt ctctcctcct cacaggcta 239

<210> 1131
<211> 402
<212> DNA
<213> Homo sapiens

<400> 1131


```

aaggagtcct gcttatcaca atgaatgttc tcctgggcag cgttgtgate tttgccacct 60
tcgtgacttt atgcaatgca tcatgctatt tcatacctaa tgagggagtt ccaggagatt 120
caaccaggaa atgcatggat ctcaaaggaa acaaacaccc aataaactcg gagtggcaga 180
ctgacaactg tgagacatgc acttgctacg aaacagaaat ttcattgttg acccttgttt 240
ctacacctgt gggttatgac aaagacaact gccaaagaat cttcaagaag gaggactgca 300
agtatatcgt ggtggagaag aaggacccaa aaaagacctg ttctgtcagt gaatggataa 360
tctaattgtc ttctagtagg cacagggtc ccaggccagg ac 402

```

<210> 1132

<211> 304

<212> DNA

<213> Homo sapiens

<400> 1132

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ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60
gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgcca acagggctcc 120
agggagcttg gcttctgtag aagttctaag gaagcggtag gaactccacg gcggtggggc 180
gctaactagc agggaccctt gcaagtgttg gtcggggggc tcgagctgcc tgagctgaca 240
cgaggggagg ggtctgtgta gccaacaggt gaccgaaggg cttgcctgcc cacagcttac 300
ttgg 304

```

<210> 1133

<211> 224

<212> DNA

<213> Homo sapiens

<400> 1133

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ctgacatttt ctatagtaga tatggaggag gtccaagact aactgtgaaa gccctgtgta 60
aggaatgtgt agtagaacgt tgtcgcatat tgcgtctgaa gaaccaacta aatgaagatt 120
ataaaaactgt taataatctg ctgaaagcag cagtaaaggg cagcgatgga ttttgggtgg 180
ggaagtcctc cttgcggagt tggcgccagc tagctcttga acag 224

```

<210> 1134

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1134

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cctactctgc tgagggtggcg cttcctgcta agggcccttc tctgcccttt ctgccctcct 60
tcccatccca catgctgagc cgccacaaag accaaagaag tgatggcttt tctctgtccc 120
ctgctgctct gaggggagag ggggtgggtct cctgagccac tcagatggga aagtcctta 180
ctcggccctt cctccccag cagccccaag ctttacactg gatgcagcga tcaaccacc 240
actcaccagg 250

```

<210> 1135

<211> 315

<212> DNA

<213> Homo sapiens

<400> 1135

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ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagaggcg 60
atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
tggtagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
ggccagcaaa aatatcaagg gtcaaataac gcacatttct gtttaggcca tctatggctt 240

```

tcattctcctc tgaagtcaac tggaattcaa acacctgcac gttccgtctg atgcgctgct 300
cattgtagct cttgg 315

<210> 1136
<211> 377
<212> DNA
<213> Homo sapiens

<400> 1136
cctgccgtcg atgccaggga ggccgacagg accttctttt ccagcggggc cgatatttcc 60
aggggaacca ggaagacctc tgggtcccat gagaccaggc tccccagggc gaccagcatc 120
tccattaggt cctcggactc cagcagggcc acttgcacca cgactaccag gagggcccat 180
gacgccagct ctgccatcag ctccaggaag accacgagaa ccaggactac ctctcagccc 240
aggaggtcct ggagggcccg cagatccagc ttccccatta gggcctctct ttccttcttc 300
accactggga ccaggaggac cttggggccc agcagagccg ggctcaccct tgttaccgct 360
ctctcctttg gagccag 377

<210> 1137
<211> 250
<212> DNA
<213> Homo sapiens

<400> 1137
ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt atttttaaatt 60
tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
ggaatacagc cttagaatgg aagctatatatt gcttccctgc cccctttctc ttacaattgg 180
agagtgtagg tattaaggga taciaaagtca gaggaagaat aattaaaaag aaaaatgccc 240
aaagctgcag 250

<210> 1138
<211> 511
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 431
<223> n = A,T,C or G

<400> 1138
tcgaccaggt cctcctgggc catctgggtcc ccgagggtcag cctgggtgtca tgggcttccc 60
cggtcctaaa ggaaatgatg gtgctcctgg taagaatgga gaacgagggtg gccctggagg 120
acctggccct cagggctcct ctggaaagaa tgggtgaaact ggacctcagg gacccccagg 180
gcctactggg cctgggtgggtg acaaaggaga cacaggaccc cctgggtccac aaggattaca 240
aggcttgcct ggtacagggtg gtcctccagg agaaaatgga aaacctgggg aaccagggtcc 300
aaagggtgat gccggtgcac ctggagctcc aggaggcaag ggtgatgctg gtgcccctgg 360
tgaacgtgga cctcctggat tggcaggggc cccaggactt agagggtggag ctgggtcccc 420
tgggtcccga ngaggaaagg gtgctgctgg tcctcctggg ccacctgggtg ctgctgggtac 480
tcctgggtctg caaggaatgc ctggagaaag a 511

<210> 1139
<211> 505
<212> DNA
<213> Homo sapiens

<400> 1139

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ctgtggactc cagcatgttt ctgataatta tgcaagcaac aattctgtag cctcaagtaa 60
gaccacctgt gaacttgatc attatctggc ccaaatatga agataaacta taactttgga 120
gtttgtttcc tatttgtatt cacattctgc ttcctaaatc agttttctaa attgtgcctg 180
caattaggca ttgggtcaggg gtgaatggct cttttcacag agagtagcca accagagacc 240
tttgctttga tatcatcaac tgcagagaat gctgttgatg ggaatgctgg aagcagaaac 300
tttgtcatcg gaaaaacttt tcttgtatgc atgagactca acatcaggat ccacagctta 360
aagatgggaa ttcagggtatg aaagaaaaca ggcaaggagg cactgaggga gaaagacaca 420
gactttatcg ctctgtggct cattgttact ggaatattct aaaactcttg ttcacatgct 480
attatgactt ataaagcagc aacag                                     505

```

<210> 1140

<211> 256

<212> DNA

<213> Homo sapiens

<400> 1140

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ctgtagcttc tgtgggactt ccactgctcg ggcgtcaggc tcaggtagct gctggccgcg 60
tacttgttgt tgctctgttt ggagggtttg gtggctctcca ctcccgcctt gacggggctg 120
ccatctgcct tccaggccac tgtcacagct cccgggtaga agtcactgat cagacacact 180
agtggtggcct tgttggcttg gagctcctca gaggaggggc ggaacagagt gacagtgggg 240
ttggccttgg gctgac                                     256

```

<210> 1141

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1141

```

ccaggggccc attctgtctg tgggactgtg gggtctcagt ggaattgttg cctttcttgt 60
cgtggagaaa tttgtgagac atgtgaaagg aggacatggt cacagtcatg gacatggaca 120
cgctcacagt catgcacgtg gaagtcatgg acatggaaga caagagcgtt ctaccaagga 180
gaagcagagc tcagagggaag aagaaaagga aacaagaggg gttcagaaga ggcgaggagg 240
gagcacagta ccaaagatg ggccagttag acctcagaac gctgaagaag aaaaaagagg 300
cttagacctg cgtgtgtcgg ggtacctgaa tctggctgct gacttggcac acaacttcac 360
tgatggctctg g                                     371

```

<210> 1142

<211> 312

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 292

<223> n = A,T,C or G

<400> 1142

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cctcccacac tgtcaaagt ccaactccacc agcactgaga caatgagtag atgagaatgt 60
agaaagaggg aagggtgtag gtaaaggagc ggaaggaaga ggtggggaaa gagggaaggt 120
ggtaggtaaa ggagcggaag gaagaggtgg ggaagagagg aaggagagaa ggggaaggagg 180
gaagagaaaag aaggaagaaa aggaaagcat ggcccggcta gagacaaagc cagaggtgat 240
caggtcagca gcaggagagg ctcagaaggg agcctctcgg gaagtgcagg cngccatgag 300

```

ggctcgtttc ag

312

<210> 1143
<211> 367
<212> DNA
<213> Homo sapiens

<400> 1143
ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggcgagg caggaggatc 60
cttgagggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
atacaaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180
gaggcaggag aattacttga acgcaggaga atcactgcag cccaggaggc agaggttgca 240
gtgagccgag attgcaccac tgcactccag cctgggtgac tgagcaagac tccatctcag 300
taaataaata aataaataaa aagcgtgca gtagctgtgg cctcacctg aagtcagcgg 360
gcccagg 367

<210> 1144
<211> 159
<212> DNA
<213> Homo sapiens

<400> 1144
cctggaggag cggccgcaca cacagccagg cgctaggctc cctgcgggac ctcggaagg 60
gggaagagcg tcaacgattt acggagggtc cagccgctgg gtcagattga gacaaacct 120
tgtgtggttg ggttcgggtc agcaggctgg agagggttc 159

<210> 1145
<211> 450
<212> DNA
<213> Homo sapiens

<400> 1145
ccatgggtgt ctggagcacc ctgaaactgt atcaaagttg tacatatctc caaacatttt 60
taaaatgaaa aggactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
aggcatttaa agatgtttct ggcatTTTTt ttttattttg aagggtggtg taactatggt 180
tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
acaaccgaga caaaccttg atgctccttg ctggcggtg aggctgtggg gaagatgcct 300
tttgggagag gctgtagctc agggcggtgca ctgtgaggct ggacctgttg actctgcagg 360
gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
ccatcttagc tgtggacaaa ggggggtcag 450

<210> 1146
<211> 324
<212> DNA
<213> Homo sapiens

<400> 1146
ccatacaggg ctgttgccca ggccttagag gtcattcctc gtaccctgat ccagaactgt 60
ggggccagca ccatccgtct acttacctcc cttcgggcca agcacacca ggagaactgt 120
gagacctggg gtgtaaatgg tgagacgggt actttggtgg acatgaagga actgggcata 180
tgaggagccat tggctgtgaa gctgcagact tataagacag cagtggagac ggcagttctg 240
ctactgcgaa ttgatgacat cgtttcaggc cacaaaaaga aaggcgatga ccagagccgg 300
caaggcgggg ctctgatgc tgga 324

<210> 1147
 <211> 191
 <212> DNA
 <213> Homo sapiens

<400> 1147
 ccacgaaaat caatgagaag ccacaggtga tcgcggacta tgagagcgga cggggccatac 60
 ccaataacca ggtgcttggc aaaatcgagc gggccatttg cctcaagctc cgggggaaagg 120
 acattggaaa gcccatcgag aaggggccta gggcgaaatg aacacaaagc ctcgaaatca 180
 gtgtgctcca g 191

<210> 1148
 <211> 344
 <212> DNA
 <213> Homo sapiens

<400> 1148
 ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60
 tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagc catcctgaat 120
 gtcctctatg gccagacga ccccaccatt tccccctcat acacctatta ccgtccaggg 180
 gtgaacctca gcctctcctg ccattgcagcc tctaaccacac ctgcacagta ttcttggtctg 240
 attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300
 aacagcggac tctatacctg ccaggccaat aactcagcca gtgg 344

<210> 1149
 <211> 329
 <212> DNA
 <213> Homo sapiens

<400> 1149
 ctgacccact cactgggcgg gggcacaggc tctggaatgg gcactctcct tatcagcaag 60
 atccgagaag aataccctga tcgcatcatg aataccttca gtgtgggtgcc ttcacccaaa 120
 gtgtctgaca ccgtgggtcga gccctacaat gccaccctct ccgtccatca gttggtagag 180
 aatactgatg agacctattg cattgacaac gaggccctct atgatattctg ctccgcact 240
 ctgaagctga ccacaccaac ctacggggat ctgaaccacc ttgtctcagc caccatgagt 300
 ggtgtcacca cctgcctccg tttccctgg 329

<210> 1150
 <211> 406
 <212> DNA
 <213> Homo sapiens

<400> 1150
 ccagttatatt gcaagtggta agagcctatt taccataaat aatactaaga accaactcaa 60
 gtcaaacctt aatgccattg ttattgtgaa ttaggattaa gtagtaattt tcagaattca 120
 cattaacttg attttaaaat cagttttgtg agtcattttac cacaagctaa atgtgtacac 180
 tatgataaaa acaaccattg tattcctgtt tttctaaaca gtcctaattt ctaacactgt 240
 atatatacct cgacatcaat gaactttgtt ttcttttact ccagtaataa agtaggcaca 300
 gatctgtcca caacaaactt gccctctcat gccttgccctc tcaccatgct ctgctccagg 360
 tcagccccct tttggcctgt ttgttttgtc aaaaacctaa tctgct 406

<210> 1151
 <211> 346
 <212> DNA

<213> Homo sapiens

<400> 1151

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ctgcgtgagt accaggagct gatgaacgtc aagctggccc tggacatcga gatcgccacc 60
tacaggaagc tgctggaggg cgaggagagc cggctggagt ctgggatgca gaacatgagt 120
attcatacga agaccaccag cggctatgca ggtgggtctga gctcggccta tgggggcctc 180
acaagccccg gcctcageta cagcctgggc tccagctttg gctctggcgc gggctccagc 240
tccttcagcc gcaccagctc ctccagggcc gtgggttgta agaagatcga gacacgtgat 300
gggaagctgg tgtctgagtc ctctgacgtc ctgcccgaagt gaacag 346
```

<210> 1152

<211> 427

<212> DNA

<213> Homo sapiens

<400> 1152

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ctggactgct gtacatcaag gacagattaa ctggaaaaca tatgttcctt atgcgtgatc 60
gagagccatt cagaaaagac ttcctttgtg ttcagcctat acttttccat atggtatacc 120
ttgaaaaaaa ttagcacacc atggttatatt ttctaccttt tataaaagac agagcctggt 180
tactcattta gaagatagag aaaattgggtc taaaattgaa catcctagat tcacactccc 240
aagtcactta aggtgatttg atggtgagga aaatgattga cagagcccaa caatgatctc 300
aggaattaca ttttccaaca gacccaaaaa tgttttcatg tagcagcaat gcagatttgg 360
tgaatattta atatataatt tagtatgtat ttcactttat gactgacaat taaaaaatat 420
tgtttgg 427
```

<210> 1153

<211> 331

<212> DNA

<213> Homo sapiens

<400> 1153

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ctggccggcg gtgcagatct ggagtcacgc ctccagggatg cgctactttc cattctctgc 60
attgaacatt cgttctgtca gcatccgctc cagcttcact gcatcagcgg caaacttgcg 120
gateccgtca gagagcttct ccacagccat ctggtcctcg ttgtgcaacc aacggaaaga 180
cttctcatcc aggtggattt tttccagggtc actggcttgg gctgggggac aagaaccagc 240
cttccatgcc tgctccatgt cctgcccac cttggccctt tgggctcagg gcctgaaccg 300
ctgcacccaa gcatctccca ccagggccag g 331
```

<210> 1154

<211> 403

<212> DNA

<213> Homo sapiens

<400> 1154

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ctgaactttc agatgaagtt gacttctact tgattgcagg attcagggtt tctcagatgt 60
taatacagag tcaaaagcgg tggataaaac cttgcaaagt gcttgtgctt gttccaggct 120
gttgactga taaacccaca ggctgtatct ctcatctgctt gcatctgtgg tcttcagagc 180
cagtaagctt tttcccgccc ccagaccgtc atcgtaacac accatccgga ttattaagta 240
gagagcatgc ctgtgcaaaa catcatattg atctgatgtt gatactttta tgccatactt 300
ggaaactccc ataataaatt ctctctccgg aggaacaaaa ggcaactttc catcttgctg 360
ggcaacgtct atataattta tcagggtctaa tggcccttca agg 403
```

<210> 1155

<211> 491

<212> DNA
<213> Homo sapiens

<400> 1155
cctccctctc agagcttgcc ccagggactc tctggccctc agggttcaat gtattctgac 60
caaggccaag ctttcctggg gctcagggaa aatcacactt tgctacccga agctgtatcc 120
cctcagatgc caggaaggcc gtgatcatct gactccaccc tcctgagaca cattctctcc 180
ctgactgtcc tgttctaagt cagcggagca ccttaggatg gaggggtgga ggcgaggcca 240
gatgcagcct ctgtgaacag gtgcctggag gctgggaaat gaccctgaga gggcaggaca 300
cagcaaccgt gggcttaagg tgaccttgag agcaagcttg gcccacttta caattctgtt 360
cagagccagc ccctaacatg gtggtcattt attcatttgt tccctcattt taaaaaatgt 420
aaggccaggc atggtggctc acgccgggta atcccagcac tttgggaggc cgaggcaggc 480
agatcacctg a 491

<210> 1156
<211> 586
<212> DNA
<213> Homo sapiens

<400> 1156
agcaaataga agcaatcagg gcactgcaag ttgtgactac tccaagatgt gaatcatgga 60
tcatgcaaata tacaatcatg ttttaacctg acctccaaag ggagaataaa gtaaaaatta 120
tcccatgtga ggattattca ccagtttata tgctcattagt taccagtttt tctttatgaa 180
taatgttttag caatattata aagtatatct aatagttatc aggttttttg cttgttactt 240
tttggtagta acttataaaa ctgactggaa aagaccaata aggcactgtt tgcattgttac 300
aaattatata caaagaccaa aagctgttaa taagaaatct tccaataaaa ccacatcata 360
ttttcttttt tattttacacc cacatcagga ttacaacttt atcaggactg caccttgatc 420
aggaagggat gtttctctta caaggctaata aagaaaggaa caataaattt gctgatgaaa 480
aaagtcatgc atttaaaaat tttaacttta atttttaatt gagggcaata ttttaaagaa 540
atgctcatta gtcattcctt taaatttgtgt gtgtgagaga gagaaa 586

<210> 1157
<211> 392
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 373, 389
<223> n = A,T,C or G

<400> 1157
cctccggctg gtgttctgag gggtgccagg ccatcgtgga cacaggcacc tctctgctca 60
ctgtgccccca gcagtacatg agtgctcttc tgcaggccac aggggcccag gaggatgagt 120
atggacagtt tctcgtgaac tgtaacagca ttcagaatct gccagcttg accttcatca 180
tcaatgggtg ggagttccct ctgccacctt cctcctatat cctcagtaac aacggctact 240
gcaccgtggg agtcgagccc acctacctgt cctcccagaa cggccagccc ctgtggatcc 300
tcggggatgt cttcctcagg tectactatt ccgtctacga cttgggcaac aacagagtag 360
gctttgccac tgnccgctag acttgctgnc tc 392

<210> 1158
<211> 375
<212> DNA
<213> Homo sapiens

```

<400> 1158
gggaaaaata attttattcc tcaaattgatc agcacattca gaagcaggac agaggagctc 60
tgatgacatc tctggggggac tcaaagcggc cctcattttc tggatatttc ccagggtgatt 120
ctcttccaac ctgtgagtc tgcctctctt cctcccatct gaagtttgag acatcctctg 180
ccacaaggaa agccaccaat accagcccaa agagccacca gagaggaacc aaaccacatg 240
catcaagtta taggaaggat gcaagaaggg aaattaggaa ggaaagggag gagtttagtt 300
ggcattctgg ggcattgctaa catgagggcg atggtctctc tccaagtcgc tggacatatc 360
ccttttcttt ccagg                                     375

```

```

<210> 1159
<211> 361
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 338
<223> n = A,T,C or G

```

```

<400> 1159
gtttatttga aaaaacaaaa aactctgtat tgtgcacatg aagacctgga gatgtgccga 60
cttcctgtcc ccaaagccaa tcttcccgc caaggcgact gaggatttca agggctcaga 120
gttactgcag gaatccaggt gacaccagga agagaagggg gaggagggga atcggagggg 180
atgggtttta aaggcagagg ggaggagat ggaagggaat gaggaggagg gagactgagg 240
gggctgcctt tccttgggga ctggggaact catgccctgc cccacccgc agggctccag 300
gggtgagaga aaggggtgga gaataaagaa ttgggcanca gggtgatggg gggaacagca 360
g                                                                 361

```

```

<210> 1160
<211> 142
<212> DNA
<213> Homo sapiens

```

```

<400> 1160
cgcaatgttg ccagtgtctg tctgcagggt ggctacccaa ctgttgcatc agtaccocat 60
tctatcatca acgggtacaa acgagtcctg gccttgtctg tggagacgga ttacaccttc 120
ccacttgctg aaaaggtcaa gg                                     142

```

```

<210> 1161
<211> 193
<212> DNA
<213> Homo sapiens

```

```

<400> 1161
ccaaagccta cgaccacctc ttcaagttgc tgctgatcgg ggactcgggg gtgggcaaga 60
cttgtctgat cattcgcttt gcagaggaca acttcaacaa cacttacatc tccaccatcg 120
gaattgattt caagatccgc actgtggata tagaggggaa gaagatcaaa ctacaagtct 180
gggacacggc tgg                                     193

```

```

<210> 1162
<211> 265
<212> DNA
<213> Homo sapiens

```


<400> 1162
 cctgggtgcc acgattccca gcctggagcg cagccaggac gtgggagacc ttctcagaga 60
 ctctccgggc acactctatg agctccttct tgggtgtaggc atcactgggg ctgcactgca 120
 gggcgccctgc cttgggtgacc agagcggcac agccatggcc cagctcctgt acccggtgtt 180
 tgatatggga acctatctct tcattttcag cagccaccgc tgcaggcttg gcctccgagg 240
 ccagacggcc atagtcactg gtcag 265

<210> 1163
 <211> 337
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 204, 205, 212, 224, 263, 285, 293
 <223> n = A,T,C or G

<400> 1163
 ctgcagagtg ggganaggct tttgccacta gaaacttcca ggatgcacga gatcaaggaa 60
 ttaagtctgt aacaaaataa caggatgctc tgtgaagtcc aaagaattgc ttgaggcaaa 120
 ctgcagagct ccatgagatc agcaacccca agagctttta caccgccgga caccggttta 180
 taggaaaaaa atctcctata ctgnntattc anaaccaa at gaanagaaat gtcaaaggag 240
 tcggaaacaa tatgtcaa at tangtaaatt cctgacctga cccanatttt gcngaacatt 300
 tgatcctaaa ctgtgctgtc cacgtcctta ggatcac 337

<210> 1164
 <211> 368
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 221, 226, 233, 242
 <223> n = A,T,C or G

<400> 1164
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgagggtca ggagttcgag accagcctcg ccaacatggg gaaaccccat ttctactaaa 120
 aatacaaaaa attagccaag tgtgggtggca tatgacctga atcccaacta ctcagaaggc 180
 cgaggcagga gaattacttg aacgcaggag aatcactgca ncccangagg canagggttg 240
 antgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300
 gtaaataaat aaataaataa aaagcgctgc agtagctgtg gcctcacctt gaagtcagcg 360
 ggcccagg 368

<210> 1165
 <211> 267
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 179, 211, 214, 235, 251, 252
 <223> n = A,T,C or G

<400> 1165

```
ctgggaagga ggctcctccg ccttctcctg tttgtcatcc tcctcatcag actcgacctc 60
catctcaact tcctcactct ccccaaactt ttcatagcgc tcctgaatga ggattcgggc 120
ccccagctcc tctggcgtgg tggggggagg gaagttccct tgctcattgg gttggaagnc 180
cactgtttcc accaccacaa aatcatgcc a ntcnatctga gcataggcca cccgntcctt 240
ctccttctcc nnttcttctt tcttctct 267
```

<210> 1166

<211> 433

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 142, 323, 354, 376, 381, 382, 402, 408, 422

<223> n = A,T,C or G

<400> 1166

```
ctgtctgtac actttttctt gggggaagag ttcttgtctt cagtttactg cagtaggggtt 60
cctggctctg ttacatgctc atgtgttccg gaagaacaca tgaaatatca tcccacggat 120
gacgatacag cccctgcttc ancctcttct gatcaagata gtgtccaatg aaccccatatc 180
tccttcccag cacaagatg ccattgaggg ctccaatgtc aatataattca tcagcttctt 240
ccctgcaaca cacatcaact tgtagtctta aaaggctcac gtgactgccc tcctccccac 300
agacagtact actactgccc aanaatgaga agaaaagggg tgctctgggt ggtngcatta 360
caggcaattt ttgttntctt nnttatacct ctccttattt tncaaatntt ctattatgag 420
tntgcattac ttt 433
```

<210> 1167

<211> 362

<212> DNA

<213> Homo sapiens

<400> 1167

```
cctctggctc tttcttcagc cacttctcca gctcctgcag gttctgggtct gagtagtcag 60
tgacgacgat ctctttaaag gattcacaaag cagagaggag ctgatagata gtggggccag 120
agccgatgtc aatcagcagg tctcccttca caccgtctag gcagaatata ttgaaaagat 180
ttttcagaag gtgcttaaga atctggcttt ctgcagagtg cctagaacca aacttgtaat 240
atTTTTctag gtaatcccga ggggttaaaat ggcttagata ggtgtccttg gaggtgaagc 300
ctgattccat tatgtctcac ttccgtacca ctggagcact gccctccttc tctttcctcc 360
ag 362
```

<210> 1168

<211> 459

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 370, 382, 406

<223> n = A,T,C or G

<400> 1168

```
gcagtcattg ggcccaggac catgccactg gccctgctcc cccagccgca gcctcacctg 60
```

```

caggtgctcc tcgatgtcct tgcggtcgta ggtgatgcc a ctgggcgtga tgcacggctc 120
ccgcatcagc tcaaagctga tcttgccaca caggtagtcg gggatgtctc gcttctgtgg 180
cacaggggca cacggtcaga ggcgtaaaag gggcactgca cgagcacctg ccagccatcg 240
gcagcaagcg acacacactc accttcctct tctcatccac ctgagaaaaa agctcgtcca 300
tgtccgcat gtacttgtcc tgtgaagagt tgagtgtgt gcttggggga gacacccac 360
ctccctcctn catggggcac anacccaaca caaggcggg atgctnccac gccacgtgca 420
cacacacaga cccacatgtg ggtggggggc accctcacg 459

```

<210> 1169

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1169

```

ccaggccacc tgtgcggggc tcctcgatgt ggaagggttcg ggtgaggaga ttgtagaagg 60
agccgtagca cacggccacc acagtgcacg tgaggcagat cacgctgtag ggcatgctga 120
agtccggtgt cggcagggttc accagcagcg gctccgtgta gagccgcaca aagtagttag 180
agccatcaga gactgggaac aggctgttga agaggggact ctcttcccag tccactggct 240
tggctgctac catgctgggc acaagggcgc tgaggacaga tgggctgaca tagaagccat 300
ggttaggatc tggcgtgtac tcggctccact tcagcagcgc ccgctcaaac tggatggaaa 360
ccttggtgac tgagttggcc ggccag 386

```

<210> 1170

<211> 480

<212> DNA

<213> Homo sapiens

<400> 1170

```

ctatttctct gttagtgttt aaccaaccat ctgttctaaa agaagggtcg aactgatgga 60
aggaatgctg ttagcctgag actcaggaag acaacttctg cagggtcact ccctggcttc 120
tggaggaaaag agaaggaggg cagtgtctca gtggtacaga agtgagacat aatggaatca 180
ggcttcacct ccaaggacac ctatctaagc cattttaacc ctggggatta cctagaaaaa 240
tattacaagt ttggttctag gcaactctgca gaaagccaga ttcttaagca ccttctgaaa 300
aatcttttca agatattctg cctagacggg gtgaaggagg acctgctgat tgacatcggc 360
tctggcccca ctatctatca gctcctctct gcttgtgaat cctttaagga gatcgtcgtc 420
actgactact caggaccaga acctgcagga gctggagaag tggctgaaga aagagccaga 480

```

<210> 1171

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1171

```

cctcagcagc cctgccacgg atctgcccga ttcttttcgca tcaagaagtt gatcttgcca 60
gccatttcca tgttgtagat ccgccggcac ctttcatagc tttccctctg tcgccggcgg 120
catggcttct cataataccg ccgatgctta atgtcctcaa tgagcccatc catagtgagg 180
attctgttta gggtcctgta tgcgctttcc acgttccctt cctgtaccat cacagtcctg 240
gcgatgaact tcagatgttt tgccatgacc ttggatttaa accttcactc tgtagagcct 300
cgcgcgctca gtacct 317

```

<210> 1172

<211> 202

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 32, 62, 70, 71, 77, 90, 111

<223> n = A,T,C or G

<400> 1172

```
ggcaacggga ggaacagcag cagagggcagc angagcagga ggagcgtgaa cgagaagagc 60
ancggcgatn ngctgcnctc agtgaccgan agaagagagc tctggctgca naggcccgac 120
tcgctgcccc gttgggagcc cctacctctc caatccctga ctctgcaatc gtcaatactc 180
gacgctgctg gagttgtggg gc 202
```

<210> 1173

<211> 173

<212> DNA

<213> Homo sapiens

<400> 1173

```
ctgcctgggt tgtggccgcc ctagcatcct gtatgccac agctactgga atccccgctg 60
ctgctccagg ccaagcttct ggttgattaa tgagggcatg ggggtgggtccc tcaagacctt 120
cccctacctt ttgtggaacc agtgatgcct caaagacagt gtcccctcca cag 173
```

<210> 1174

<211> 301

<212> DNA

<213> Homo sapiens

<400> 1174

```
ccaagagcta caatgggcag cgcatacagac agaacgtgca gggtttttgag ttccagttga 60
ctgcggagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120
atagtttttg tagccaccct aattatccat attcagatga atattaacat ggagagcttt 180
gcctgatgtc taccagaage cctgtgtgtg gatggtgacg cagaggacgt ctctatgccg 240
gtgactggac atatcacctc tacttaaate cgtcctgttt agcgacttca gtcaactaca 300
g 301
```

<210> 1175

<211> 537

<212> DNA

<213> Homo sapiens

<400> 1175

```
cctgcagggc tcggccgtag gagaagggtca gggcccaggg cttcagcagg gggcacttgt 60
taatggcatt gaggttgatg gacgcctcct cctcactctg gcctccagac aggaagggtga 120
tcccagtgac agcggggggc actgtgcggc gcagcgtgtg gacggtcgcc atggcaatct 180
cctcatgaga aaacttctga gtgcaagcat ggcttgggtg gaccatgttg ggcttcagca 240
aggtgccttc caggtagatg tgggtggtcac tcagagcctt gtagacagca gccagcacct 300
tctcggtcac atactggcag cgcttcaagt catgggtccc atcagggagg atctcaggct 360
ccacgatggg cacaatgcca ttctgctggc agatactggc ataacgggcc agaacatttg 420
cattttccat gatggcgagg gctgaggggg tgtgttcccc aatcttcagc acacaacgcc 480
acttggcgaa gtcagctccg tccttcttgt actgggcaca gcgctcagac agcccat 537
```

<210> 1176

<211> 384

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 268, 285, 334, 360, 361, 368
<223> n = A,T,C or G

<400> 1176
ctgacaaaaa atgtgaaatt tccacaaaat atccaactta tgtgactaaa cgcagtagtt 60
tttttaaaaag gggagataga aaataaatgg ttttggttga gtgcatttta gtaagccttt 120
gcagtaaaat gacggttgta actactaaac caaatttagt tttcacagca tggttttggt 180
gttttcccct tgtttttcag aggtaaattt tgcattatat ccttcagtat tttaacacta 240
ttttggcagt ttacacatta ctttttgntt ttccttcctt tttgngaaat gtattaagtt 300
gtggttctta ttgaaacagt attatataat gttngcttaa ttatatcatg tgatgctcan 360
ntctattntg atttattcat tagt 384

<210> 1177
<211> 562
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 492, 541, 550
<223> n = A,T,C or G

<400> 1177
ccaacaacat gcaggaagct cagagtatcg atgaaatcta caaatacgac aagaaacagc 60
agcaagaaat cctggcgggc aagccctggg ctaaggatca ccattacttt aagtactgca 120
aaatctcagc attggctctg ctgaagatgg tgatgcatgc cagatcgagg ggcaacttgg 180
aagtgatggg tctgatgcta ggaaagggtg atggtgaaac catgatcatt atggacagtt 240
ttgctttgcc tgtggagggc actgaaaccc gagtaaattgc tcaggctgct gcatatgaat 300
acatggctgc atacatagaa aatgcaaaac aggttggccg ccttgaaaat gcaatcgggt 360
ggtatcatag ccaccctggc tatggctgct ggctttcttg gattgatgtt agtactcaga 420
tgctcaatca gcagttccag gaaccatttg tagcagtggg gattgatcca acaagaacaa 480
tatccgcagg gnaaagtga tcttggcgcc tttaggacat acccaaaggg ctacaaacct 540
nctgatgaan gaccttctga gt 562

<210> 1178
<211> 353
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 117
<223> n = A,T,C or G

<400> 1178
cgcgtctgga tggccgaatc attcgcacag actgggacgc aggctttaag gagggcaggc 60
aatacggccg tgggcgatct gggggccagg ttcgggatga gtatcggcag gactacnatg 120
ctgggagagg aggcattgga aaactggcac agaaccagtg agtggtgaga gctctgtcag 180
tgacaaacac tcctttggcc tgttgaattt gctgaagaac atcacctaaa gtctgcacac 240

gagcccattt ttaccaagat ttgatcagtg tctttactga gctggaagcc tctgaaagtt 300
 attaaaggac agaatccaaa agaatgcctt taattcttgt ctgagaatct tgg 353

<210> 1179
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1179
 ccaatgggat cctcaagggtg cctgccatca atgtcaatga ctccgtcacc aagagcaagt 60
 ttgacaacct ctatggctgc cgggagtccc tcatagatgg catcaagcgg gccacagatg 120
 tgatgattgc cggcaaggta gcggtggtag caggctatgg tgatgtgggc aagggtgtg 180
 cccaggccct gcgggggtttc ggagcccgcg tcatcatcac cgaggttgac cccatcaacg 240
 cactgcaggc tgccatggag ggctatgagg tgaccaccat ggatgagg 288

<210> 1180
 <211> 523
 <212> DNA
 <213> Homo sapiens

<400> 1180
 ctggagagat ggagcgggtg gcaccgtcat ccttcctcat cagccacata gaaggacagt 60
 ggcgatttca gccagcttt tctgactgct tgtaaattga agcccagaac tggtttgcca 120
 cctgtgggat cgactcagca ttttaaaata ggaggcagtc gtgagtgcag gtttcttgca 180
 gctccgggtg gccctgggct ccaggtcagg agacctcagc tcctgtccct gatctgtggt 240
 tgtcaagcct tgcagactct aaactcagca tctttatctg tcagacgtag acacgtggct 300
 cccgtgggtg gtgcgggttg aatagctgag gtaatacacg gacctccaag cactagagca 360
 gtatgaggag ttctgaggaa tggttatcct gcggtgcctg tgggtccacag caagccattc 420
 ttatcccatc cggtttactt cccacagcca ctttgtaagc ataggcatta tcctctaccc 480
 catcatagaa atgaggaaaa gaatcaccaa gagagtaagc agc 523

<210> 1181
 <211> 493
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 438, 479
 <223> n = A,T,C or G

<400> 1181
 cacagatgaa ggctttgtga tacctgatga agggggccca caggaggagc aagaagagta 60
 ttaacagcct ggaccagcag agtaacatcg gaattcttca ctccaaatca tgtgcttaac 120
 tgtaaaatac tcccttttgt tatccttaga ggactcactg gtttcttttc ataagcaaaa 180
 agtacctctt cttaaagtgc actttgcgga cgtttcactc cttttccaat aagtttgagt 240
 taggagcttt taccttgtag cagagcagta ttaacaccta gttgggttcac ctggaaaaca 300
 gagaggctga ccgtggggct caccatgcgg atgcgggtca cactgaatgc tggagagatg 360
 ttatgtaata tgctgagggtg gcgacctcag tggagaaatg taaagactga attgaatttt 420
 aagctaattg gaaatcanag aatgttgtaa taagtaaagc ccttaagagt atttaaaana 480
 tgcttccaca ttt 493

<210> 1182
 <211> 329

<212> DNA
<213> Homo sapiens

<400> 1182
 cgcgtctctg acactgtgat catgataggg gttcaaacag aaagtgcctg ggccctcctt 60
 ctaagtcttg ttaccaaaaa aaggaaaaag aaaagatctt ctcagttaca aattctggga 120
 agggagacta tacctggctc ttgccctaag tgagaggtct tccctcccgc accaaaaaat 180
 agaaaggctt tctatttcac tggcccaggt agggggaagg agagtaactt tgagtctgtg 240
 ggcttcattt cccaggtgcc ttcaatgctc atcaaaacca ggcatgggga aggccctggc 300
 aaactgctcc acccggtgcc tgaggttgg 329

<210> 1183
<211> 198
<212> DNA
<213> Homo sapiens

<400> 1183
 cctgacagac agaagggctt ggagattttt tttctttaca attcagtctt cagcaacttg 60
 agagctttct tcatgttgct aagcaacaga gctgtatctg caggttcgta agcatagaga 120
 cgatttgaat atcttccagt gatatcggct ctaactgtca gagatgggtc aacaaacata 180
 atcctgggga catactgg 198

<210> 1184
<211> 224
<212> DNA
<213> Homo sapiens

<400> 1184
 ctggaggtgc ctcagaaggt gcattctgct tcctgcaggg gcttgaaaca ccaaggcact 60
 ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
 gggtagccgc agtccaccct gtccttggtc ggcacggcac actggtttgc agacaggccc 180
 acgtactcct cagcagagct ggaggacagc aaggccagga ccag 224

<210> 1185
<211> 367
<212> DNA
<213> Homo sapiens

<400> 1185
 ccttttacag atgtcagctt tcaactggcct ccatgcacaa cctcccacta ccacccaatc 60
 tgccctgccac agcaaagtgc aggcaccctg ggccccctgg aggatgcggg caggggctac 120
 agggcatcca ggatgtggct gatcttggtg accagctcct ggcgctttcc tgagatgagc 180
 ttctcattct caatgtacgt gtctttcttg agcttgccag ccaccaggcg ctcagcctcc 240
 accgccgact tcagcaccag ctcttgacc tgtgcatcca gcttctgcat ttcgctcact 300
 ctgtcgcaca gatcagagcc ctctgtcttc agcctggact gcagcagtgc aatctcactg 360
 gtcaagg 367

<210> 1186
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1186
 ccattaagcg gatgctggag atgggagcta tcaagaacct cacgtccttc cgacctgggc 60

```

aagagctgta gacctgctgg tgcctactct gctgtctggg tgacccccat gcgtggctgt 120
gggggtggct ggtgccagta tgaccactt ggactcacc cctcttgggg agggagtcct 180
gggcctgg                                     188

```

```

<210> 1187
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 1187
gttgatgcta ctctgaagtc tctcaacaac cagattgaga cccttcttac tcctgaaggc 60
tctagaaaga gccagctcg cacatgccgt gacttgagac tcagccacc agagtggagc 120
agtggttact actggattga ccctaacc aa ggatgcacta tggatgctat caaagtatac 180
tgtgatttct ctactggcga aacctgtatc cgggcccaac ctgaaaacat cccagccaag 240
aactgggtata ggagctccaa ggacaagaaa cacgtctggc taggagaaac tatcaatgct 300
ggcagccagt ttgaatataa tgtagaagga gtgacttcca aggaaatggc taccacaactt 360
gccttcatgc gcctgctgg                                     379

```

```

<210> 1188
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1188
cgcgtcggac tgcagccagt ccgtttcctt tctttagcca gccatcctgg tactgtagtt 60
taggggttga tgggtggttga aattgatttc tggctgggtta ctaagggtgcc tgctagccat 120
tgtataaaat taaaacatga agaataat ttttttgagc atggctagt gatttaaaac 180
aacacatacc tgtcactgct ggagtcaaac ttataaaaag ccttaagtgg aaagtgttcc 240
agacggagac tctgagttaa tagaggagta gaagctgggtg ttaaagttcc cacgacgcac 300
atggctttgc cagaaactct gtttaatgat cggcctttca cctcttcact tacccttagt 360
cccagtagcc aggatacctg atgg                                     384

```

```

<210> 1189
<211> 419
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 348, 349
<223> n = A,T,C or G

```

```

<400> 1189
ggaaaaacca gccactgctt tacaggacag ggggttgaag ctgagccccg cctcacaccc 60
acccccatgc actcaaagat tggattttac agctacttgc aattcaaaat tcagaagaat 120
aaaaaatggg aacatacaga actctaaaag atagacatca gaaattgttg agttaagctt 180
tttcaaaaaa tcagcaattc cccagcgtag tcaagggtgg aactgcacg ctctggcatg 240
atgggatggc gaccgggcaa gctttcttcc tcgagatgct ctgctgcttg agagctattg 300
ctttgttaag atataaaaag gggtttcttt ttgtctttct gtaaggtnna cttccagctt 360
ttgattgaaa gtccatagggt gattctatct ctgctgtgat ttatctgctg aaagctcag 419

```

```

<210> 1190
<211> 173
<212> DNA

```


<213> Homo sapiens

<400> 1190

```
ccagggtactg gcacatcatg ctctggatgg ggggtgggtgg gtccctgtagg cagagaaaca 60
ggaaattgtc gtagtcagta tcgagcagcg tggcctcggt cgccaccgta tagttgatct 120
tgaacttctt tggattctca gtcttctctc caaggacctt cttctcaaca cag 173
```

<210> 1191

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1191

```
cctcctgcca gcagttcttg aagcttcttt ttcattcctg ctactctacc tgtatttctc 60
agttgcagca ctgagtggtc aaaatacatt tctggggccac ctcagggaac ccatgcatct 120
gcctggcatt taggcagcag agcccctgac cgtcccccac agggctctgc ctcacgtcct 180
catctcattt ggctgtgtaa agaaatggga aaagggaaaa ggagagagca attgaggcag 240
ttgaccatat tcagttttat ttattttatt ttaatttggt cttttctcca agtccaccag 300
tctctgaaat tagaacagta ggcggtatga gataatcagg a 341
```

<210> 1192

<211> 324

<212> DNA

<213> Homo sapiens

<400> 1192

```
ttggagggtg gcggcgcggg gctgaaggct agcaaaccga gcgatcatgt cgcacaaaca 60
aatttactat tcggacaaat acgacgacga ggagtttgag tatcgacatg tcatgctgcc 120
caaggacata gccaaagctgg tccttaaaac ccatctgatg tctgaatctg aatggaggaa 180
tcttggcggt cagcagagtc agggatgggt ccattatatg atccatgaac cagaacctca 240
catcttgctg ttccggcgcc cactacccaa gaaaccaaag aaatgaagct ggcaagctac 300
ttttcagcct caagctttac acag 324
```

<210> 1193

<211> 521

<212> DNA

<213> Homo sapiens

<400> 1193

```
ctgctttgtt ttctgttggc agtggaggga caagggtgaga ggagccaggg gtagtcatga 60
acaccagtgg gttctgccct gggcagctcc ccaccttctt taagagagta ctgtgtctca 120
gctccagcag tctcaactgg gaagaccag gactcctgct cttttctcta atccctggga 180
gacgagggtc agctaaggta gagtaagcag tcagtgacca ggcaggctgg tttgggaggt 240
cactgcctgg aggacgggat cttgtattct tcggaagatg gctgggaaat tcttccctcc 300
attacgtaga actttcttcc cctcctcagt tgaggtgcct agatgtccca caacgggggc 360
ttcactcagg tcctccagag gcacacgctc aaacagtggg tgctcttcga aatgagtgca 420
catccagtcg tgtagctcca gcacatcggt tatggtatac accagcccct gcataggcaa 480
aatcacccta gacaggaggc tgcattgcaac gtcagcagcc a 521
```

<210> 1194

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1194

```

ccagtgacta gaaggcgagg cgccgcggga ccatggcggc ggcgggcgac gagcggagtc 60
cagaggacgg agaagacgag ggagaggagg agcagttggt tctggtggaa ttatcaggaa 120
ttattgattc agacttcctc tcaaaatgtg aaaataaatg caagggttttg ggcattgaca 180
ctgagaggcc cattctgcaa gtggacag                                     208

```

<210> 1195

<211> 499

<212> DNA

<213> Homo sapiens

<400> 1195

```

ccagaaagga aagacaataa ttttggtttt tcattttgaa aaaattaaat gctctctcct 60
aaagattctt cacctacttt ggtctccata acttctatgt tttctttcct tctgacacac 120
tagtgcccct aaattgtgat ttgcctatac gtttagggcc ggggttggaa gatgttaaca 180
accatttaag attcatttct gcagtgggag tgggtggagt ttcacctctt gggaaagggg 240
caggtgacag gtatttatca gtcagtgcct ctctagctct tgtaggaaga agcacacgca 300
ggatggagtc tagaggatga gcgatattga ctagcaattc atgggctccc tccagcagtg 360
cgagggtcag agtttctgga gccttgggag gaggcacccc tgtgaggggg ggtaggggag 420
atgggagggc accaggaaaa gtgattagaa gtcagggtat ggaaggctaa attaggacag 480
agtcgagtac atctctgct                                     499

```

<210> 1196

<211> 455

<212> DNA

<213> Homo sapiens

<400> 1196

```

ctgaccccc tttgtccaca gctaagatgg cagcagaatg ctatgtcact atatacagaa 60
acaagacaac ctgaagctaa atggatgccc cctgcagagt caacagggtcc agcctcacag 120
tgcaacgcct gagctacagc ctctcccaaa aggcatcttc cccacagcct caacgccgag 180
caaggagcat caagggtttg tctcggttgt tttgttcttt ttacaaacta tagatatata 240
cagttgaaaa ctcaggattt ctagccaata accatagtta ccaccacctt acaaataaaa 300
agaaaatgcc agaaacatct ttaaatgcct tgtcacacca acagcaaagt gcacagagtg 360
aggagaacac gagagtgcct tttcatttta aaaatgtttg gaaatatgta caacttcgat 420
acagtttcag ggtgctccag acacccatgg acctg                                     455

```

<210> 1197

<211> 444

<212> DNA

<213> Homo sapiens

<400> 1197

```

cctggatgtg gctcttcgca ctgaaggcca agtagtagat cacaaggccg atcgccgcag 60
ccagcacctc agtggacacc cagggcccgt tccaagtgcc ccgatgggtcc acgctgactg 120
taaacagagg cgggatgatg gaaatgtcct cgttattcct ctgagccttc ctgaggagge 180
tgtaggactc ctcgtcgaag aatctaacct cataggtgcc tgcgtgggag ctcttggtgt 240
tcaggcttca ggacacctga taacgcccc caccctggcc tcgagtgaca gggaattgtt 300
ttccaccgac gtcagcatag agagccatgt tctggaccct gttcttgcat gtcagggaga 360
tctccacaat gaagacggtc tcagtggaaa tgacagcgtc agaagtgggt tagtaggaag 420
gggtgatctg gggctccagg cagg                                     444

```

<210> 1198

<211> 450

<212> DNA
<213> Homo sapiens

<400> 1198

```
ccatgggtgt ctggagcacc ctgaaactgt atcaaagttg tacatatattt caaacatttt 60
taaaatgaaa aggcactctc gtgttctcct cactctgtgc actttgctgt tgggtgtgaca 120
aggcatttta agatgtttct ggcattttct ttttatttgt aagggtggtg taactatggt 180
tattggctag aaatcctgag ttttcaactg tatatatcta tagtttgtaa aaagaacaaa 240
acaaccgaga caaaccttg atgctccttg ctcggcgttg aggctgtggg gaagatgcct 300
tttgggagag gctgtagctc agggcggtgc ctgtgaggct ggacctgttg actccgcagg 360
gggcatccat ttagcttcag gttgtcttgt ttctgtatat agtgacatag cattctgctg 420
ccatcttagc tgtggacaaa ggggggtcag 450
```

<210> 1199
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1199

```
agtcacagtt gcacctattc aaaactagct ttaaagtgag ctatttttaa acttcataaa 60
aatattcatg attttattag tttgaatatt tctacaagat tcgggtgggc ttttccttta 120
ggtgaaaaca gctatccact cctgtggcct tataactcag gaaatgctgg ggatgcaaac 180
gtgcaaaagg cagggggaag ctgcccaggc tgagactgga gcagctagga gtgtgcttgg 240
ggaacgggag ctgagatccc ggagcagaaa tggtcagccg tgctctggag cagg 294
```

<210> 1200
<211> 258
<212> DNA
<213> Homo sapiens

<400> 1200

```
agctacctaa gaacagctaa aagagcacac ccgtctatgt agcaaaatag tgggaagatt 60
tataggtaga ggcgacaaac ctaccgagcc tgggtgatagc tggttgtcca agatagaatc 120
ttagttcaac tttaaatttg cccacagaac cctctaaatc cccttgtaaa tttaactggt 180
agtccaaaga ggaacagctc tttggacact aggaaaaaac cttgtagaga gagtaaaaaa 240
tttaacaccc atagtagg 258
```

<210> 1201
<211> 403
<212> DNA
<213> Homo sapiens

<400> 1201

```
ctgagctgct gtctgctttg gaaaaccggt cctgccgctg ccgatggatg gaaatgcaat 60
ggatttcagc ttcttatcat cagccagggc caagcagttt ttcactgtct tttccagaag 120
ttcttcacac ttgtctgcac cccaaactgg actattacag tggatcacia acttggcagg 180
caggccatgg cctgcgctga cagcagctcc agctacttcc aagggcccggt tctttttccg 240
gagttccagg acagcttcca caaactcctt gccaccttct ttctccagcg tgtttcctag 300
gtcatcttta aggtcaatgt cagcattggt aggattgatt atggcctcca cctcaaagcc 360
ggctaaatta ctgatttcac tgtgaataag gtccggcttc tgg 403
```

<210> 1202
<211> 325
<212> DNA

<213> Homo sapiens

<400> 1202

```
ctgaacctgc gggagtcggc caccatcacg tgcctggtga cgggcttctc tcccgcggac 60
gtcttcgtgc agtggatgca gagggggcag cccttgctcc cggagaagta tgtgaccagc 120
gcccacatgc ctgagcccca ggccccaggc cggctacttcg cccacagcat cctgaccgtg 180
tccgaagagg aatggaacac gggggagacc tacacctgcg tgggtggcct tgaggccctg 240
cccaacaggg tcaccgagag gaccgtggac aagtccaccg gtaaaccac cctgtacaac 300
gtgtccctgg tcatgtccga cacag                                     325
```

<210> 1203

<211> 518

<212> DNA

<213> Homo sapiens

<400> 1203

```
ctcaaccaca gtctgacacc agagcccact tccatcctct ctggtgtgag gcacagcgag 60
ggcagcatct ggaggagctc tgcagcctcc acacctacca cgacctcca gggctgggct 120
caggaaaaac cagccactgc ttacaggac aggggggttg agctgagccc cgcctcacac 180
ccacccccat gcaactcaaag attggatttt acagctactt gcaattcaaa attcagaaga 240
ataaaaaatg ggaacataca gaactctaaa agatagacat cagaaattgt taagttaagc 300
tttttcaaaa aaccagcaat tccccagcgt agtcaagggt ggacactgca cgctctggca 360
tgatgggatg gcgaccgggc aagctttctt cctcgagatg ctctgctgct tgagagctat 420
tgctttgtta agatataaaa aggggtttct ttttgtcttt ctgtaagggt gacttccagc 480
ttttgattga aagtcctagg gtgattctat ttctgctg                                     518
```

<210> 1204

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1204

```
ggggaaagga ggtctcactg agcacccgtc cagcatccgg acaccacagc ggcccttcgc 60
tccacgcaga aaaccacact tctcaaacct tcaactaaca cttccttccc caaagccaga 120
agatgcacaa ggaggacatc gaggtggctg tgctgggggc acccccagc accatccttc 180
caaggtccac cgtgatcaac atccacagcg agacctcgt gcccgacct gtcgtctggt 240
ccctgttcaa caccctcttc ttgaactggg gctgtctggg cttcatagca ttcgcctact 300
ccgtgaagtc tagggacagg aagatggttg gcgacgtgac cggggcccag ga                                     352
```

<210> 1205

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1205

```
ctgttcaact tccaactcta aataggcacc attaaacaaa aaaccccagt attttaaatt 60
tctccagcac acattccagg atcaatgctc tgaactgtaa tcagctagta attcataacg 120
ggaatacagc cttagaatgg aagctatat gcttccctgc cccctttctc ttacaattgg 180
agagtgtagg tattaaggga taaaaagtca gaggaagaat aattaaag aaaaatgcc 240
aaagctgcag                                     250
```

<210> 1206

<211> 275

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 10, 11, 13, 236, 237

<223> n = A,T,C or G

<400> 1206

```
ctgctctcgn ngnctcactg gatggaccag cacttccgca cgacgcccct ggagaagaac 60
gcccccgctc tgctggccct gctgggtatc tggtagatca actgcttttg gtgtgagaca 120
cacgccatgc tgccctatga ccagtagctg caccgctttg ctgctgactt ccagcagggc 180
gacatggagt ccaatgggaa atacatcacc aaatctggaa cccgtgtgga ccaccnnaca 240
ggccccattg tgtgggggga gccagggacc aatgg 275
```

<210> 1207

<211> 182

<212> DNA

<213> Homo sapiens

<400> 1207

```
ccatctcctg ctggaagtcc agggcgacgt agcacagctt ctcttgatg tcgcgcacga 60
tttcccgctc ggccgtggtg gtgaagctgt agcctcgctc agtgaggatc ttcattgaggt 120
agtcggtcag gtcccggcca gccagggtcca gacgcaggat ggcgtggggg agggcgtagc 180
cc 182
```

<210> 1208

<211> 260

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 130, 154, 167, 176, 240

<223> n = A,T,C or G

<400> 1208

```
gctgggttatg aactcctgac ctcaagtgat ctgccctcct cagcctccca aagtgctggg 60
attataggca tgagccactg gaatttttct tttttttttt ctttcttttt tttttttttt 120
ttaaattgan acaaggtctg gctctatcgc ccangctgga gtgcagnggc accatntcgg 180
ctcactgcaa cctctgcctg ctgggctcga gccatcctcc cacctcagcc tcccaagtan 240
ttgggactag aggtatgcac 260
```

<210> 1209

<211> 487

<212> DNA

<213> Homo sapiens

<400> 1209

```
aaaccactc caccttacta ccagacaacc ttagccaaac catttaccca aataaagtat 60
aggcgataga aattgaaacc tggcgcaata gatatagtac cgcaagggaag agatgaaaaa 120
ctataaccaa gcataatata gcaaggacta atccctatac cttctgcata atgaattaac 180
tagaaataac ttgcaagga gagccaaagc taagaccccc gaaaccagac gagctaccta 240
agaacagcta aaagagcaca cccgtctatg tagcaaaata gtgggaagat ttataggtag 300
aggcgacaaa cctaccgagc ctggtgatag ctgggtgtcc aagatagaat cttagttcaa 360
```

ctttaaattt gccacagaa cctctaaat ccccttgtaa atttaactgt tagtccaaag 420
 aggaacagct ctttggacac taggaaaaaa ccttgtagag agagtaaaaa atttaacacc 480
 catagta 487

<210> 1210
 <211> 216
 <212> DNA
 <213> Homo sapiens

<400> 1210
 ccactcagct cagcggggcga cgtgccccta caagttggca gaagtggctg ccactgctgg 60
 gtttgtgtaa gagaggctgc tgccaccatt acctgcagaa accttctcat aggggctacg 120
 atcgggtactg ctaggggggca catagcgccc atggatgtgg taggtggggg actcgctcat 180
 aggatggtag gtatcccggg ctggaaagat gtccag 216

<210> 1211
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 1211
 ccaaggctcag aggctgatgc aacaggccct cttctcccca gggccaggct cctgtccagc 60
 ctgggcactg ccagagtgga tggcattggg ccgatgctg ttctgtctct gcttggacac 120
 cttcgcaaag atttctttca ggacagtctc aaaggctagc tcaacattgg tagagtccag 180
 ggctgaggtc tccaggaaga gcagtcatt gttttcagcg aacattcggg cctcctcagt 240
 gggcacttcc cgggcctggc tgaggctact tttgttacct acgagcatga cgacgatcgt 300
 ggcttcagca tggatcataga gtccttcag ccacgcctcc accacagcat aggtctggtg 360
 cttgggttagg tcaaacacca ggaggggccc cactgcacca cgatagtacg ccgagggtgat 420
 ggctcgggtac cgctccaggc cag 443

<210> 1212
 <211> 526
 <212> DNA
 <213> Homo sapiens

<400> 1212
 actgaaaccc gagtaaattgc tcaggctgct gcatatgaat acatggctgc atacatagaa 60
 aatgcgaaac aggttggccg ccttgaaaat gcaatcgggt ggtatcatag ccaccctggc 120
 tatggctgct ggctttctgg gattgatgtt agtactcaga tgctcaatca gcagttccag 180
 gaaccatttg tagcagtggg gattgatcca acaagaacaa tatccgcagg gaaagtgaat 240
 cttggcgccct ttaggacata cccaaagggc taaaacctc ctgatgaagg accttctgag 300
 taccagacta ttccacttaa taaaatagaa gattttggtg tacactgcaa acaatattat 360
 gccttagaag tctcatatct caaatcctct ttggatcgca aattgcttga gctgttgtgg 420
 aataaatact gggatgaatac gttgagttct tctagcttgc ttactaatgc agactatacc 480
 actggtcagg tctttgattt gtctgaaaag ttagagcagt cagaag 526

<210> 1213
 <211> 359
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 15, 255, 258, 321, 322, 357

<223> n = A,T,C or G

<400> 1213

```
ccagccattg cctgncattt ggtagtatag tatgattctc accattattht gtcattggagg 60
cagacataca ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agttttattgt 120
gtgctgggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttttaaagt 180
ttttctggta gcttttagctt tatgctaaaa aaaataatga cattgggtat ctatttcttt 240
ctaagactac attantanga aaataagtct tttcatgctt atgatttagc tgttttgtgg 300
taattgcttt ttaaaggaag nnattaatat cataagttat tattaatatt gtgaacnca 359
```

<210> 1214

<211> 428

<212> DNA

<213> Homo sapiens

<400> 1214

```
ccaagcttga ggcagcccta ggtgaggcca agaagcaact tcaggatgag atgctgcggc 60
gggtggatgc tgagaacagg ctgcagacca tgaaggagga actggacttc cagaagaaca 120
tctacagtga ggagctgcgt gagaccaagc gccgtcatga gacccgactg gtggagattg 180
acaatgggaa gcagcgtgag tttgagagcc ggctggcgga tgcgctgcag gaactgcggg 240
cccagcatga ggaccagggtg gagcagtata agaaggagct ggagaagact tattctgcca 300
agctggacaa tgccaggcag tctgctgaga ggaacagcaa cctgggtgggg gctgcccacg 360
aggagctgca gcagtcgcgc atccgcatcg acagcctctc tgcccagctc agccagctcc 420
agaagcag 428
```

<210> 1215

<211> 414

<212> DNA

<213> Homo sapiens

<400> 1215

```
ctgaagcact cttcagagac tacgtccaca gacactgatg ctgaggcctt tcttgtaagt 60
gaagaaaaag gaatgcagca aagaagagtt cgacattgga gtccttagtt ccatcaggat 120
cccattcgca gccttttagca tcatgtagaa gcaaactgca cctatggctg agatagggtg 180
aatgacctac aagattttgt gttttctagc tgtccaggaa aagccatctt cagtcttgct 240
gacagtcaaa gagcaagtga aaccatttcc agcctaaact acataaaaagc agccgaacca 300
atgattaaag acctctaagg ctccataatc atcattaaat atgcccacac tcattgtgac 360
tttttatatt atatacagga ttaaaatcaa cattaaatca tcttatattac atgg 414
```

<210> 1216

<211> 162

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 118, 119, 148

<223> n = A,T,C or G

<400> 1216

```
cctggccgca ggggtccccg gtattgctgt tgctacgagg ttgggggggca gcgattgtcc 60
tgtgggagcc accgttctcc tgggtcgggg accctcactt cttctggggg gtgctcannt 120
tctgcatgcc ccggtctctg tccagcangc cagaaatgaa gg 162
```

<210> 1217
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 306
 <223> n = A,T,C or G

<400> 1217
 ctgaagtaga ggctggaact gaagctgaga ctgaggctga ggctgaaact ggagctaagg 60
 gtgaggctgg aactggagct gaggttgagg ccagaactgg agctaaagtt gaggctggaa 120
 ccggagctga gggtgaggct ggaactggag ttaagggtgc tggaagtgga gctgagggtg 180
 aggctggaac tgaagctgag gttgaagggtg gaagtggagc cgaagctaga ggtggaactg 240
 aggcgaaga ctgtgcttgc tggatccctg tagcctgttt tttggcaaact cttggaggaa 300
 gcttanaagt ctggcttctt cctttttcat ttgcattctt tttgttccag accttaaaaa 360
 attaacgggg accatttttg tcaataatgc ag 392

<210> 1218
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 379, 447, 470, 501
 <223> n = A,T,C or G

<400> 1218
 ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
 agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatc ttaacaaagc 120
 aatagctctc aagcagcaga gcatctcgag gaagaaagct tgcccgggtc ccatcccatc 180
 atgccagagc gtgcagtgtc cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
 agcttaactt aacaatttct gatgtctatc ctttagagtt ctgtatgttc ccatttttta 300
 ttcttctgaa ttttgaattg caagtagctg taaaatccaa tctttgagtg catgggggtg 360
 ggtgtgaggc ggggctcanc ttcaaccccc tgtcctgtaa agcagtggtc ggtttttcct 420
 gagcccagcc ctgggagggtc gtggtangtg tggaggctgc agagctcctn cagatgctgc 480
 cctcgctgtg cctcacacca nagaggatgg aagtgggctc tgggtgt 526

<210> 1219
 <211> 382
 <212> DNA
 <213> Homo sapiens

<400> 1219
 ctggccggcg gtgcagatct ggagtccagc ctcagggatg cgctactttc cattctctgc 60
 attgaacatt cgttctgtca gcatccgctc cagcttcact gcatcagcgg caaacttgcg 120
 gatcccgtca gagagcttct ccacagccat ctggctcctg ttgtgcaacc aacggaaaga 180
 cttctcatcc aggtggattt ttccagggtc actggcttgg gccgccttgg ctgagagcac 240
 aggcaccagc ttggcggttg cctgcagcag ctctcccagg agcttgggtg agatggtgag 300
 gaagtcacag ccggccagtg ctttgatctc gcccggtgtg cggaaggagg cgcccatgac 360
 aatggttttg tagctaaact tc 382

<210> 1220
 <211> 127
 <212> DNA
 <213> Homo sapiens

<400> 1220
 tcgacctcct tgaagcagac caagtatagc aagcctctaa aaggactact gagaaacaga 60
 atcagaaact ctagaactct agttagggcc cttcagcagg gctgcagagc ctccctggat 120
 acccagg 127

<210> 1221
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 1221
 ccaccccgga gatgacacga ggctcacatg actctagaca cttggtggaa agtgaggcga 60
 gaaaaacaat gacttgggcc aattacacga ctgcaaagct agagctgcca acagggctcc 120
 agggagcttg gcttctgtag aagttctaag gaagcggtag gaactccacg gcggtggggc 180
 gctaactagc agggaccctt gcaagtgttg gtcggggggc tcgggctgcc tgagctgaca 240
 cgaggggagg ggtctgtgta gccaacaggt gaccgaaggg cttgcctgcc cacagcttac 300
 ttgg 304

<210> 1222
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1222
 ctgtcgcact cgtagctgca actcactcaa cttgtcttta gcagcaattt ctgcatagtc 60
 attggcatgt tcacctacct ggatgtccgg gtgaactctc agcatgcctc cagcaaagag 120
 ggagaacttg gtggaattgg agtgaagaca gatctggtgc tcaccagggg tatgggaagt 180
 gaaagtgaac ctgccctcgg agccatactg ccggggccagg atgaccttgt cctctggggtc 240
 ctccacctcc acaaacatgc caagccccgg ggtggccggc tggtaactcct cccgctgctt 300
 gtcatacag 309

<210> 1223
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1223
 cctggcctgg gagccctgtg cctactagaa gcacattaga ttatccattc actgacagaa 60
 caggtctttt ttgggtcctt cttctccacc acgatatact tgcagtcctc cttcttgaag 120
 attctttggc agttgtcttt gtcataaccc acaggtgtag aaacaagggt gcaacatgaa 180
 atctctgttt cgtagcaagt gcatgtctca cagttgtcag tctgccactc cgagtttatt 240
 ggtgtttgtt tcctttgaga tccatgcatt tcctggttga atctcctgga actccctcat 300
 taggtatgaa atagcatgat gcattgcata aagtcacgaa ggtggcaaag atcacaacgc 360
 tgcccaggag aacattcatt gtgataagca 390

<210> 1224
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1224

```

ccttatgact acaacggccc acgagaaaaa tatggaatcg ttgattacat gatcgagcag 60
tccgggcctc cctccaagga gattctgacc ctgaagcagg tccaggagtt cctgaaggat 120
ggagacgatg tcatcatcat cgggggtctt aagggggaga gtgaccacgc ctaccagcaa 180
taccaggatg ccgctaacia cctgagagaa gattacaaat ttcaccacac tttcagcaca 240
gaaatagcaa agttcttgaa agtctcccag gggcagttgg ttgtaatgca gcctgagaaa 300
ttccagtcca agtatgagcc ccggagccac atgatggacg tccaggggctc caccagaggac 360
tcggccatca aggacttcgt gctgaagtac gccctgcccc tggttgg 407

```

<210> 1225

<211> 250

<212> DNA

<213> Homo sapiens

<400> 1225

```

ctgcagcttt gggcattttt ctttttaatt attcttctc tgactttgta tcccttaata 60
cctacactct ccaattgtaa gagaaagggg gcagggaagc aatatagctt ccattctaag 120
gctgtattcc cgttatgaat tactagctga ttacagttca gagcattgat cctggaatgt 180
gtgctggaga aatttaaaat actgggggtt tttgtttaat ggtgcctggt tagagttgga 240
agttgaacag 250

```

<210> 1226

<211> 444

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 427

<223> n = A,T,C or G

<400> 1226

```

cctttaggct gttgctctgg gcaggggggtg ggggtgcggg ggcttacagt gggggccctt 60
agttggcaca ggttcggaag ggccccaggc agacatgaat tctcctgaga cttgaggtag 120
gttgcttcag ccagcccggg cggagaagaa gggcagagag cgaacatagg agtccagtcg 180
ggagcgaaag agctcacttt gcacagtttg gccagcgggg cacaggggat tcttcaccac 240
cagctccaca tacagcgcac tgtagatgtg gtgcagcaca tctcggatgg gtcccacgcc 300
caagtcagta ttcatagcaa ctttgatccc agtggggcgtc tctagtagta ggagtttgta 360
acggctagtt tggaaggcca ggaagccatc cttcatgtct agcggggaca tcttgctgac 420
aaacganccg atagagaaga gcat 444

```

<210> 1227

<211> 491

<212> DNA

<213> Homo sapiens

<400> 1227

```

gttagcctta catgttggtg agacttactt taagtttgca cccttgaaat gtgtcatatc 60
aatttctgga ttcataatag caagattagc aaaggataaa tgccgaaggc cacttcattc 120
tggaacacagt tggatcaata ctgattaagt agaaaatcca agctttgctt gagaactttt 180
gtaacgtgga gagtaaaaag tatcggtttt attctttgct gatgtccttt ctgcttgaaa 240
taacagtcac catacagcta aaggagagga gtttctttcc ttctaagtag gcagaaatgg 300
tatcattatg ttgccgctct ccaatctccc agagctcgct ctctagagaa tcaccttctt 360

```

```

tcgctttttt tttttttttg aggtagagtc tcactatggt gccagacta gccttgaact 420
cctgggctca agtgattctc cctcctcagc ctcccagagta gctggaacga actatagttg 480
caccactgca g                                     491

```

```

<210> 1228
<211> 279
<212> DNA
<213> Homo sapiens

```

```

<400> 1228
ctgggcggat ctgatcaact aggcaacatc atgtccggat atgagttcat caacaagttg 60
actggagaag atgtatttgg aatcaccgtt cctctaatta caagtacaac tggagcaaag 120
ctgggaaagt ctgctggcaa tgctgtttgg ctaaacagag ataagacatc tccatttgaa 180
ttgtatcaat tctttgtcag gcaaccggac gattcagtgg aaaggtagct gaagctgttc 240
actttcctac cccttccaga gattgatcat atcatgcag                               279

```

```

<210> 1229
<211> 199
<212> DNA
<213> Homo sapiens

```

```

<400> 1229
cggccgaggt ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg 60
cggaagccag cttcaattgc caatttggtg gcctctaaag ctttactttt aggaacctct 120
gcaggcgcag aggtgccaaa tcccaggaca ggcatagaat gaccatcatt cagcttcaca 180
cactgatatt tcgaatcca                               199

```

```

<210> 1230
<211> 237
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 9, 12
<223> n = A,T,C or G

```

```

<400> 1230
ctgcattgnt gnggaattca caactactca ggctgggaaa atacagattg gttcaaagaa 60
acaaaaaacc agagtgtccc tcttagctgc tgcagagaga ctgccagcaa ttgtaatggc 120
agcctggccc acccttccga cctctatgct gaggggtgtg aggctctagt agtgaagaag 180
ctacaagaaa tcatgatgca tgtgatctgg gccgcactgg catttgcagc tattcag    237

```

```

<210> 1231
<211> 277
<212> DNA
<213> Homo sapiens

```

```

<400> 1231
ctggagggtgc ctcagaaggt gcattctgct tcctgcaggg gcttgaaaca ccaaggcact 60
ccagggatcc tggagtcaaa gcagcagccc cggttggtgc actccttggg ggtgacatgg 120
gggtagccgc agtccaccct gtccttggct ggcacggcac actggtttgc agacaggccc 180
acgtactcct cagcagagct ggaggacagc aaggccagga ccagccccag catgcagagc 240
gctctggcag ccatgaccac cgtgggctcc gggacgc                               277

```

<210> 1232
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1232
 ctgcaacttt ttttttttgc aattacagag tgggtattcag ttaacagaac aacaattatt 60
 tcgtataagc tgcatacagag acaactgaag atgaaaaaac taccatcccc atatataact 120
 aattttgtgct gtgcaccaac aagaacctgc tttaaatttc catgccaatt tacaaccccc 180
 atactgtacc aggcaagggt agtggctatt gaaaatacca ccaggacagg gctatctaaa 240
 gacacattcg gtagtgtgtt aactatacaa aaaaagacac tgtacagttt aaaaacaaat 300
 cttacacagc cttacatttc aatttttttc tttaaaagga gtgagttg 348

<210> 1233
 <211> 312
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 160, 163, 241, 302
 <223> n = A,T,C or G

<400> 1233
 ctgagcgtac ggccgcgttc atcccagccg cgggtgcccc cacgttgatg acagctacgt 60
 tgcaattggt ctttgggata tgatcatccg gcagcttgat ggcaagtcgc ttgtagggtg 120
 tcaggttgcc cgcaaagctc ctccctcggg gtcgaaccgn atnttgaaat ctccctctcg 180
 ccatcgccct ctgcacatcc tgagtcactc gcacgcactc catcagcggc aggcgcacgg 240
 nggtggtccc gttcagtgac acgacgcaag ctgggggtgtc cgggggtggc tctagcaagg 300
 cnatgactgc ct 312

<210> 1234
 <211> 151
 <212> DNA
 <213> Homo sapiens

<400> 1234
 ccggccgcgg gcataaaagg cgccaggtga gggcctcgcc gctcctcccg cgaatcgag 60
 cttctgagac cagggttgct ccgtccgtgc tccgcctcgc catgacttcc tacagctatc 120
 gccagtcgtc ggccacgtcg tccttcggag g 151

<210> 1235
 <211> 250
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 15, 17, 107, 161, 189
 <223> n = A,T,C or G

<400> 1235
 ctgcaccttn gggcntnttt ctttttaatt attcttcctc tgactttgta tcccttaata 60

cctacactct ccaattgtaa gagaaagggg gcagggaagc aatatancctt ccattctaag 120
 gctgtattcc cgttatgaat tactagctga ttacagttca nagcattgat cctggaatgt 180
 gtgctggana aatttaaaat actgggggtt tttgtttaat ggtgcctggt tagagttgga 240
 agttgaacag 250

<210> 1236
 <211> 154
 <212> DNA
 <213> Homo sapiens

<400> 1236
 ctgacccctca ctattgtggg caccatcgct ggcatcgctca ttctcagcat gataattgca 60
 ttgattgtca cagcaagatc aaataacaaa acgaagcata ttgaagaaga gaacttgatt 120
 gacgaagact ttcaaaatct aaaactgcgg tcga 154

<210> 1237
 <211> 375
 <212> DNA
 <213> Homo sapiens

<400> 1237
 ccactggatc tttgggatta aagctctggt ggatttgtac ctacagaggaa gatcaagtgg 60
 ctgacccctt ggactctgta aagagcattc ttctagtcag aggggtggaat ggcagcagca 120
 actggaagaa aatgagtgtt ttggtgcccc caccacagag cacacacatg ctgcactgtc 180
 tcggaaagca gggccagcta gagccaccat gttcttcctt acctcagttt acctgcggcc 240
 tgcgtgcac tgcagatgcc caccctgccc tgggtctggc cggcggaagc tctgtccaag 300
 gtccacacac ctccagggtt acgccaacat ccttgtgccc tccccacctt ctcttccaac 360
 gcattaggtg cattg 375

<210> 1238
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 1238
 gtcaagatca agttcaatat catcgccctct ctctatgact acaaccccaa cctggcaacc 60
 tacatgaagc cagagatgtg ggggaagtgc ctggactgca tcaatgagct gatggatata 120
 ctgtttgcaa atcccaacat ttttgttgga gagaatatc cggaagagag tgagaacctg 180
 cacaacgctg accagccact gcgtgtccgt ggctgcatcc taactctggt ggaacgaatg 240
 gatgaagaat ttaccaaata aatgcaaaaat actgaccctc actccaagag tacgtggagc 300
 acttgaagga tgaggcccag gtgtgtgcca tcatcgagcg tgtgcagcgc tacctggagg 360
 agaagggcac taccgaggag gtctgccgca tctacctgct gcgcacccctg cacacctact 420
 acaagtttga ttacaaggcc catcagcgcac agac 454

<210> 1239
 <211> 483
 <212> DNA
 <213> Homo sapiens

<400> 1239
 ctgccagggt gaaaagaagc ctacagctccc acaccgccct cctcaccgcc ctccctcggg 60
 agtcacttcc actggtggac caccggcccc cagccctgtg tcggccttgt ctgtctcagc 120
 tcaaccacag tctgacacca gagcccactt ccactcctctc tgggtgtgagg cacagcgagg 180
 gcagcatctg gaggagctct gcagcctcca cacctaccac gacctcccag ggctgggctc 240

```

aggaaaaacc agccactgct ttacaggaca ggggggttgaa gctgagcccc gcctcacacc 300
caccceccatg cactcaaaga ttggatttta cagctacttg caattcaaaa ttcagaagaa 360
taaaaaaatgg gaacatacag aactctaaaa gatagacatc agaaattggt aagttaagct 420
ttttcaaaaa atcagcaatt ccccagcgta gtcaagggtg gacactgcac gctctggcat 480
gat

```

```

<210> 1240
<211> 358
<212> DNA
<213> Homo sapiens

```

```

<400> 1240
cctttatgga tgaaagtacc cagtgccttc agaaggtgtc agtacagctc ggaaagagaa 60
gcatgcaaca attagatccc tcaccagctc gaaaactggt gaagcttcag ctacagaacc 120
cacctgccat acatggatct ggatctggat cttgtcagtg actttatgag agtttctgcc 180
acaaggtgcc caagaggaga ggaatgggaa gagtgcccca gcacgtggtg actgctgat 240
ttctgctera tgcctttmts atamstgacc aactgasgg cgaattmcag cacactggcg 300
gccgttacta gtggatccga gctcgggtacc aagcttggcg taatcatggt catagctg 358

```

```

<210> 1241
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 1241
ccaaagggttc gtaatgcat ctctgcacca atctcctccc ccatagcaat aagggcaatc 60
cccagaacag ccactccctg atgtgctccc atgtcagcag gggcttcctt cttgtccttg 120
tctttctttt ctttcttgtc tttgtcttcc tccttctctt tggagtcaaa gtgttcgcta 180
caaatgtgga gcag

```

```

<210> 1242
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1242
ccttggtctc actgccctct aagggaactt ggtcactcgg cacttttaag cctcagtttc 60
tccagttcaa taataaggac aagagctttt cccatgcatt ctctttcccc gggaaagtgt 120
actgaggtga ccagtaatat aattgaaaag ggagagtgtc ttcagtgcaa tgtggcatcc 180
tggattgggt cttggaacaa aaacaggaca ttagtgggaa aattggaaat ctgaaaaaag 240
tctgaatttt agttaatat ccaatttcag tctcttggtt ttgacagatg taccatgggt 300
atgtaagatg ttgacc

```

```

<210> 1243
<211> 275
<212> DNA
<213> Homo sapiens

```

```

<400> 1243
aaaagggtga tgaaagtatt atgtataata ttataatggt aaatatgtga tatgaatttg 60
ttgaaatcaa cagaatatac agcataaagg gttaattcca attcacaaaa atataaataa 120
ataggagatt aggaattcca ggatagaatg cagacaatat agaaaatatc taatgtcatt 180
acaaatgtat gaaatcagaa gaggtgccaa gtgacctcag aaatagtgtg gtcaataaaa 240
gaataaagaa agtgcacgtc agaactgtac cccag

```

<210> 1244
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1244
 ctgctgctgct tggataacaa gtaattcaac gcacgcactt aacagaaatg ttaaactata 60
 acaagcacca tttagaggatt aacaggaaca tttttttgaa gatttcaaac gaactcgact 120
 ttcagtataa ttgtacctaa agtatttata aacagctcat cggagcctct atttgtcata 180
 gacttttgag ttgattgttg ggaccacata ataggacat tttttttttg tcttt 235

<210> 1245
 <211> 640
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 565
 <223> n = A,T,C or G

<400> 1245
 ctgatgatgt tccacaaaag agcaaaacat acacaatctg gttccactct acagaaatcc 60
 tggaaactgga ctacaaaggg aatagacagg gtgtggcagg aggggggttc tcacggttgg 120
 agtgcgaggt tagggacagg aatagaaggy aggtaataaa cattcatgtg gtattaacag 180
 ggcagatgtg tcaatrtatt tscaagttta gcataatata ggtataaaaa ttaaataaaa 240
 atagtttaka tgtgtgtgta tatatgggtt aatacacacac acatacctcc tagagtcatt 300
 acctgagagg ttctacaaga aaagacagca aattaacaaa aaatacaccc agaatacaaga 360
 tttgagtttt gggttcctttc atagcagaat ggtatgcaac atttcttgga aaaatggcta 420
 atcctagggc ttggaaagag aatataggag taaagtctac aatttctcat ggtacccaga 480
 aaataagaaa ggggttccaaa atgaagaatc gctccttttg caaaccttat ggtaacaaat 540
 ataataattta taaaaagtga attangtaat atgttaatgg agaaataaac atcattatga 600
 aatgctatct taacaaaaaa targagaaaa twttagtttt 640

<210> 1246
 <211> 509
 <212> DNA
 <213> Homo sapiens

<400> 1246
 aaactttcaa agaatcactt ttaggcttac aaaaataaat atttgtcaaa atgttcaata 60
 aatattacat aaaactagca gcaaaaagta tctagaaatc tgctcgtgtgc aaatagtttt 120
 cttcccaact atcattccca tgggtcccaa taaatttttag aatctagtcc catccccttc 180
 ctagacaagc tgcgttcaac aatctccaag agacaaagta agattggaag ttttaaggaca 240
 cgcacacaag acatatatat aaaattctct gaatgtgcaa taaaagaagt actttgtaaa 300
 aagttatggg caaaatgtac aagggcctaa acctagacta attgaaatag caccataaca 360
 aatgacctca atactgtcaa gtgcacctac ttaataaaaag ttttagaaca aggcacaata 420
 cacttgaaaa tctattgcac tttaggaaat ttttgccgtc ttcctatgcc actgtaaaaa 480
 gatggagcgt tttgatcacc gcattctgg 509

<210> 1247
 <211> 310
 <212> DNA

<213> Homo sapiens

<400> 1247

```

catatgtgga actattcttg gaaagtctac aaagtgaaat ctatcgagtt atttctcatt 60
tgcaaagtga tcctttgagt catttctcat aatctataat ctgaatgtta atactgatat 120
ttttaaaagc cctacatccc aacagaccag gccatctaga tatttcagcg tgggtgtctca 180
ggatgagtaa acaaacagct aaaaatatat gacttatgta aactagagtt acaggagtta 240
ctagcttttc tgaaagggat atattctaag tattttttct taaaaaaaaa aaaarggggg 300
gggggggggtt                                     310

```

<210> 1248

<211> 640

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 604

<223> n = A,T,C or G

<400> 1248

```

aaagatataa aactatggag aaaactgcta aagggtatcc ctgaccttta tgatgatgca 60
gctatttttc aggccaaaaa atcattttac tgggcaagaa aaacatctca ttcctttgtc 120
gtgaatatcc ttgctcaggc tctttatgaa ttattttctg ccacagatga ttccctgcat 180
caactaagaa aagcctgttt tctttatctc aaacttggtg gcgaatgtgt tgcgggtcct 240
gttgggctgc tttctgtatt gtctcctaac cctctagttt taattggaca cttctttgct 300
gttgcaatct atgccgtgta tttttgcttt aagtcagaac cttggattac aaaacctcga 360
gcccttctca gtagtgggtg tgtattgtac aaagcgtggt ctgtaaatatt tcctctaatt 420
tactcagaaa tgaagtatat gggttcattaa gcttaaaggg gaaccatttg tgaatgaata 480
tttggaaact accaagtcct aagagacttt tggaagagga tatatatagc atagtaccat 540
accacttata aagtggaaac tcttggaacca agatttggtat taatttgttt ttgaagtttt 600
tggnatataa atatgtaaat acatgcttta attgcaattt                                     640

```

<210> 1249

<211> 1108

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 527

<223> n = A,T,C or G

<400> 1249

```

caaaataaat ttcaattcaa tgaaaagtaa ataacttagg gatctataaa tgacactgca 60
atgtatcttg ttccattttt aacaggaagt ccttcatgca aatgtgtgag tctcccagga 120
tgcatgaagc tccagccttt tcgtggtgac tcaatagagc aattgtacct tacaaatktg 180
caaccacctc cctgaaagtc ttctcccacg ttattaagtg caatgyttat ggtaaagtga 240
gaagcatcat gatgaggacg aagagaacgc tgtcgttcag gggagtattt tactacaaaa 300
ttcagtagtg caaatccctt cgtataatag cctgcaaaga ccttcagtgt aactggtgca 360
atgaactccc ggataaaatg aagccataca ttctccagat caacttgctt catgtggata 420
tcatcagttg ggacattttc ataaccacca gatatacggc tatcatgatg tttttcccca 480
gaccatttgc cgtaatgttc catttcttct accaattcat cacaggnctt tttcagaaaa 540
tatggggaac cmaaaagaca tctggacagg gctgttcaam ctatattttc agtgaaaatc 600

```



```

tttgaataat ccmcggttta tatacttttc cttccagtcc acaggatttt caaaaatctg 660
ccagagggtca ttgtttataat gggaagtatt gtaattagca gtggataata gccttccaaa 720
ttcatgtcta ttagaaatgt acataaatac accctttggg gggctgagca tttggaatgt 780
ttccggagta ggggagtctt tttccctttg taaagtcatt tctctagcat ttcggcaaag 840
agccatatca ggatccagtt tatcacgaac aaaatagctc ctttcattca tctctgatcg 900
gagtgtcttt cctttaatta agtacacatt agccatatat gggacattcc atactcctac 960
tctattccct tgaacaatat ccacataatc ttcagatcgt gcatagtatc catcaggact 1020
caatgctccc cagaaattgg accacagctt tccatgacga gttacaagag gagcaatgat 1080
ctttctgttt tgttcaatca aaattttt 1108

```

<210> 1250

<211> 567

<212> DNA

<213> Homo sapiens

<400> 1250

```

ctgaatattg aactggaagc agcacatcat taggcctttat gactgggtgt gtggtgtgtg 60
tatgtaatac ataatgttta ttgtacagat gtgtgggggt tgtgttttat gatacattac 120
agccaaatta tttgttggtt tatggacata ctgccctttc attttttttc ttttccagtg 180
tttaggtgat ctcaaattag gaaatgcatt taaccatgta aaagatgagt gctaaagtaa 240
gcttttttagg gccctttgcc aataggtagt cattcaatct ggtattgatc ttttcacaaa 300
taacagaact gagaaacttt tatatataac tgatgatcac ataaaacaga tttgcataaa 360
attaccatga ttgctttatg tttatattta acttgtattt ttgtacaaac aagatttgtg 420
aagatatatt tgaagtttca gtgattttaac agtctttcca acttttcatg atttttatga 480
gcacagactt tcaagaaaat acttgaaaat aaattacatt gccttttgtc cattaatcag 540
caaataaaac atggccttaa ctaaaaa 567

```

<210> 1251

<211> 655

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 161, 175, 193, 200, 211, 212, 223, 228, 324, 396, 518, 546, 559, 565, 571, 584, 597, 601, 610, 613, 622, 639

<223> n = A,T,C or G

<400> 1251

```

gaaagaaacc aatttaatgc caccaaacat aagcctgcta tacctgggaa acaaaaaatc 60
tcacacctaa attctagcag agtaaacgat tccaactaga atgtactgta tatccatatg 120
gcacatttat gactttgtaa tatgtaattc ataatacagg nttaagggtgt gtggnatgga 180
gctaggaaaa ccnaaggagn aggaaattat nnaaaagaac tgnaggtnaa gtataaagtc 240
atatgcctga tttcctcaaa ctttttggtt ttcctcatgg cttctggctt tatattttta 300
tcacaaacca agatctaaca gggntctttc tagaggatta ttagataagt aacacttgat 360
cattaagcac ggatcatgcc actcattcat ggggtgntcta tgttccatga actetaatag 420
cccaacttat acatggcact ccaaggggat gcttcagcca gaaagtaaag ggctgaaaaa 480
gtagaacaat acaaaagccc tcgtgtgggg ggaactgngg gctcactctt acttggcctt 540
cattcnaaac aggttgggnc tttcntgcga ngatctctca gggnggtaaa aactttnttg 600
ntttcaacan aanaggtttg gntgaatgat tactcggcng acacctaagg gatcc 655

```

<210> 1252

<211> 672

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 653

<223> n = A,T,C or G

<400> 1252

```

aaantgcaaa aacccagaag accaataatt ctgaaacttg gcatgagtgt gcccagtcag 60
cagcttgcaa agagaggatg tgtcagttac tacaattgct gtactccttt agctgagtcc 120
ttcaactttc tccttcttgc cagtaaatac tacgttgtaa ttcatatgac tgagatctta 180
gtatcacagg atttttagct cccatgcctc cttcaaaatt gtttacatgg atttgtttct 240
attctctgta ggccatattc caaacacatt cacttctaaa tccaacacaa gtgaaggacc 300
agccaggatg aaacacttca gcaatcattt tggttaaaaat aacatcctgg tcatcaagct 360
aagcataagc acctcttgta taacaattca tcttaaaaagc ttaaagtaca ataataaaaa 420
taactgcctg aaaactggaa atgaaataca acagaaaaac tgaagcatta gtaatttttg 480
caagtaaccc aggtacagta catttgattt catagagggt gttttctgat gtttaaggag 540
agggtagaag gggtaggaaa acttggcaag gaagatggaa acagcacaac cagttatttt 600
gcttttaata aagtaaattg aatgacagga gtagggaggt gacaaacaca tcnatatata 660
tttttcttat gg 672

```

<210> 1253

<211> 644

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 578, 582

<223> n = A,T,C or G

<400> 1253

```

ccaaatatatt gttagaaact tctggtaact tagatgggtct ggaatacaag ttacatgatt 60
ttggctacag aggagtctct tcccaagaga ctgctggcat aggagcatct gctcacttgg 120
ttaacttcaa aggaacagat acagtagcag gacttgctct aattaaaaaa tattatggaa 180
cgaaagatcc tgttccaggc tattctgttc cagcagcaga acacagtacc ataacagctt 240
gggggaaaga ccatgaaaaa gatgcttttg aacatattgt aacacagttt tcatcagtgc 300
ctgtatctgt ggtcagcgat agctatgaca ttataaatgc gtgtgagaaa tatgggggtga 360
agatctaaga catttaatat tatcgagaag tacacagaca ccactaataa tcagacctga 420
ttctggaaac cctcttgaca ctgtgttaaa ggttttgagg atttttaggta agaagtttcc 480
tgttactgag aactcaaagg gttacaagtt gctgccacc ttatcttaga gttattcaag 540
gggatggagt agatattaat accttacaaa gagattgnag anggcatgaa acaaaaaatg 600
yggactattg aaaatattgc ctctggtctg gcggagggtt gctc 644

```

<210> 1254

<211> 438

<212> DNA

<213> Homo sapiens

<400> 1254

```

aaagggcatt tgaggggagg attattgcta tgaatgaaaa aaatatattta gcttagacta 60
agctacctgc cttcaaaata gtttagggac caccaccata ttttatatttg tttttatttt 120
tgaacatttt tctaattgatt tggagagaaa actatttaca aaaattccac atatcagtga 180
tacaatttct tgctgtcacc aattttttat aatagcagag tggcctgttc taagaaggcc 240

```

atatttttta agttatcttt cagggtaaca tggaaatact ataaagttgg atgtcaaact 300
 ttaatatggt ttcagtgttc tctaattttt tggaaatttt gtagacttta cacctggaaa 360
 aaaagatttg taaaatcacc ggaacaattg tgtgctttat tttataggta gtggttatta 420
 gtattacatc cccatttt 438

<210> 1255
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 1255
 caagcacagg ggagtttata gttctgatgt ctttgacatt ttccttgga cataccaaac 60
 cctagaaatg tttccaagaa cacctggaat ttggttactc cactgccatg tgaccgacca 120
 cattcatgct ggaatggaaa ccacttacac cgttctacaa aatgaagcat cttctgagac 180
 tcacaggaga atatggaatg tgatctaccc aatcacagtc agtgtgatta ttttattcca 240
 aatatctacc aaggaatgac caggagaata agatcctccg atgttcgcaa tgggtgtggtg 300
 tcaggagggt gcctcttaga caatctccag atgtactgtg atgtgagttt gaaaaagagt 360
 tcctgaagta ccacatctgg gagacatgcc actagctgag cttcccaaaa gtctaccaag 420
 agctgaggaa ttgtatcttc atccttagca caaagcacct taaaaacagt aaaaggagcc 480
 tctatattcc agataaatat agcactgata aagcgacag 519

<210> 1256
 <211> 178
 <212> DNA
 <213> Homo sapiens

<400> 1256
 ccatgcagga gttcatgac cctccagtcg gtgcagcaaa cttcagggaa gccatgcgca 60
 ttggagcaga gggtttaccac aacctgaaga atgtcatcaa ggagaaatat gggaaagatg 120
 ccaccaatgt gggggatgaa ggcggggttg ctccaacat cctggagaat aaagaagg 178

<210> 1257
 <211> 255
 <212> DNA
 <213> Homo sapiens

<400> 1257
 ggggccactt gctgccccat cattgtatca ccttccttca atcttttggc tgccactctc 60
 atgtagggat ccacgggtgag gaacaaagct tcaagcagga cctctccatt ttttaagggg 120
 gggagctcag atgtcttcaa ctcaaagtca ctattagtag gatagccaac aaagtgcctc 180
 ttcaggggtc atgtcttagt acgaaccatc ctgaagctca ggagcccgaa ggttccactg 240
 cctggggaag gcggc 255

<210> 1258
 <211> 630
 <212> DNA
 <213> Homo sapiens

<400> 1258
 aaaactaaaa gcatcactgc tgaactccag ctcaagtctc ccattttata atgaggactc 60
 tgaagtttat agagggtcaag gacttggtcca aagctttaga tatgtagtgt ctgtgccctt 120
 ttcctctaag tttctcctag agaattgtgg ggctcaggaa cagagaaaat aagggtgcaa 180
 aagtagaaat ggggtggtgt tctcaaagtg tgggtccatc gcatcctagt gactgggggtg 240
 cttgttaaaa tgcagattgc tgggccttat cccaatctga ccaaatactc tcaggatcta 300

```

ccttttgaac aaacttgcct aggtcaaatt cactcttgtg gaagtttaag tacttcagaa 360
acaagacagc cacagaaggt gcacctgcta atttgggtggc ttccagtgcc tcatctgtaa 420
cttctggtga aatcctgaga tgtcttactt tacattgttt acatcccata acattccaac 480
atttagaaat tcactcgagc ttatttttct tacttgttta gcactaaatg aaaatagctc 540
cctgaagtta aggagtttat atacagtaat tcatgcaagt gtgtaaatta aacagatgac 600
tttccccctt aatatctaata gcacagcaag 630

```

```

<210> 1259
<211> 159
<212> DNA
<213> Homo sapiens

```

```

<400> 1259
aaaatttaca gataaaggca gttcaatact gccactgaga agtacatctc ttaacatata 60
caactttcag gccacagttt tgaaggctctg aagtattaag ttggtttgat gaattagtcg 120
gttggcactt acgaacacat ttattgcctt gccatcttt 159

```

```

<210> 1260
<211> 115
<212> DNA
<213> Homo sapiens

```

```

<400> 1260
aaaaatacta taatttcaaa acttccaaat ttcaacagat gccagtgttc tctccttttt 60
tcatatggga aaatttcttt caaaattatt tgacgcttgg acaaaaattc cacag 115

```

```

<210> 1261
<211> 280
<212> DNA
<213> Homo sapiens

```

```

<400> 1261
aaaatattgt ttatctttat ttattttgtg gtaatatagt aagttttttt agaagacaat 60
tttcataact tgataaatta tagttttgtt tgttagaaaa gttgctctta aaagatgtaa 120
atagatgaca aacgatgtaa ataattttgt aagaggcctc aaaatgttta tacgtggaaa 180
cacacctaca tgaaaagcag aaatcggttg ctgttttgct tctttttccc tcttattttt 240
gtattgtggt catttcctat gcaaataatg gagcaaacag 280

```

```

<210> 1262
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 1262
aaattatttg atgagttcca cttgtatcat ggcctacccg aggagaagag gagtttggtta 60
actgggccta tgtagtagcc tcattttacca tcgwtgtgat tactgaccac atatgcttgt 120
cactgggaaa gaagcctggt tcag 144

```

```

<210> 1263
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 1263

```

```

aaacatcttg ataatttggt gttgagagct gttcattcta aaatgtaatg aaattcagtc 60
tagttctgct gataaagatc atcagttttg aaagggttact gattttcctc ttccctctta 120
gtttttttacc caatatatgg agaagagtaa tgggtcaatct taacattttg ttttaattgt 180
ttaataaaagc tgctgggcag tgggtgcagca ttcctaccta gtgtcataaa agcaaaaatac 240
ttacatagct ttcttaaaat ataggaatga cattacattt ttaggagaaa gtaagttgct 300
ttgcaccgcc tacttaattc ttttccatat attgtgatac aaacttttga atatggaatc 360
ttactatttg aatagaaatg tgtatgtata atatacatac atacataagc atatatgtgt 420
gtgtgtgtgt gtatatatat atatatgcat gctgtgaaac ttgactacac aacataaatc 480
actttttt                                     487

```

```

<210> 1264
<211> 250
<212> DNA
<213> Homo sapiens

```

```

<400> 1264
ctgcttcaac agagtggcag caaccaagct ggagtccaag cccctgata aaaggcagcc 60
aatccttctg tctgtcatca aacgttttctt tacagcatta ttaaaaagga tcctgagggt 120
gttcttcaca gtttctatct caaaacctgg aaagagtttc tccacattgt catagagggc 180
gtgcaggggt tcatcccgac agtgatgata tttaaccatt tccacggatg caactttgcc 240
atttggtctt                                     250

```

```

<210> 1265
<211> 394
<212> DNA
<213> Homo sapiens

```

```

<400> 1265
aaatatattgt tccaaccttt ttcgttggtg gcatttatgg ctttggagca ctgtcaggcc 60
catgttcatt accgtgagct cctgtgcatc tcctaatttc caaactagcc tggaaaacgc 120
ctccattgac catgattggt tcatggctct gtgcatggaa catcatatgt tcaggagat 180
aaagaactct gatagtggca cctgggtaaa aagtacaatc cattatatct ggatatcaag 240
atctttttgca gttgaagaga ggtattgcca cagagaaaat tataggagca gaagaaagtc 300
aatgaaagtc aatgatgaca ctccattagg aaccagaaag atgggtattta tttatacata 360
taatagggtgt aagagattag aggaagcctg tcac                                     394

```

```

<210> 1266
<211> 229
<212> DNA
<213> Homo sapiens

```

```

<400> 1266
ccacagttgt atcatatagc atctctaaca tttcatctag gattatctag tatagatctt 60
actatatattg gggctatggt gtatacaatg ttaacaagaa catatcttct ctgcatatat 120
gtgtgaatta taaagaaaag catgagaatg actctaagtt caacaaacat ggggtgaatct 180
ctatgtgctc ccagtgtcct ggatgggctc cccagcaagc cattcctcc                                     229

```

```

<210> 1267
<211> 722
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 658
 <223> n = A,T,C or G

<400> 1267
 aaatcttatc aacttttccaa atttttcatac taaaatatat tattgtatta atacaaacta 60
 cagtattata cactacactg tgtaataaat aaagaaatat aaaaataaga cacataaata 120
 taaaagtttt ctaaaactaa aagtacatat gtcagtaaga agggatttaa tactgccagg 180
 tttgaagaca tacagtacaa aaatggttgc cagatctata aactaaaaga aataaaataa 240
 tactgatagg taaaaatcag ctaatggtgt taataaattg ggtccataat aactaacatt 300
 tggaaacagt tatgagccaa ataacaatag catgtccatg tctgaaatgc aagtacatgg 360
 ataaagcaga ttagaaaatt tccctttcgt ttctgtagag aaattctgaa aatcaatcaa 420
 cataaaatca ataccgagga attgaaggat gaaatgtccc agtgtttcag tttctctgac 480
 agagtcagtg gttttaagtt ttatttggga attttgatac aagagacaaa tcaacaaatg 540
 ctagttattg taggccacac attggatgaa ggcgggtag agccttgaaa atactgagaa 600
 atggcactta cagcacacag gtcttgctta agggcaaagg agatacaaag cttcatgnca 660
 tatccttcat atggtaccac atattcaaac accatcccaa cactgatctg atgattttgc 720
 tg 722

<210> 1268
 <211> 407
 <212> DNA
 <213> Homo sapiens

<400> 1268
 gatgacacaa gcagctaata accatttctg ggtttctgcc taacccccta attgtctggt 60
 aaagccaatt ctctgggtgt cccagtgagt ggtggctttt tttctttcca cattggcaca 120
 ttcacttctc ccactcttgg catgtaagaa ataagcattt acataattgg aaaaatctgg 180
 atttctgatg ccaaagggtt aaagcttctt ggatttcatt tcattgatat acagccacta 240
 ttttatTTTT gatcagtggc ctttgggcca ctgttcaggg tactgaccat cagtgtcagc 300
 attaggggtt tggtttttgt ttcttttggg tatttctttt ttggcacatg tgaatcttgt 360
 tttgtgtaaa atgaaattac tttctcttgt tctctgatga tgggttt 407

<210> 1269
 <211> 675
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 613, 629, 643
 <223> n = A,T,C or G

<400> 1269
 ctgaaaaaga gtgatcctca atatcctaac taactgggtcc tcaactcaag cagagtttct 60
 tcactctggc actgtgatca tgaaacttag tagaggggat tgtgtgtatt ttatacaaat 120
 ttaatacaat gtcttacatt gataaaattc ttaaagagca aaactgcatt ttatttctgc 180
 atccacattc caatcatatt agaactaaga tatttatcta tgaagatata aatgggtgcag 240
 agagactttc atctgtggat tgcgttgttt cttagggttc ctagcactga tgcctgcaca 300
 agcatgtgat atgtgaaata aaatggattc ttctatagct aaatgagttc cctctgggga 360
 gagttctggt actgcaatca caatgccaga tgggtgtttat gggctatttg tgtaagtaag 420
 tggtaagatg ctatgaagta agtgtgtttg ttttcatctt atggaaactc ttgatgcacg 480
 tgcttttgta tggataaat tttgggtgcaa tatgatgtca ttcaactttg cattgaattg 540
 aaattttggg tggatttata tgtattatac cctgtcacgc ttctagttgc ttcaaccatt 600
 tataccattt tgnacatatt tttacttгна aatatttacc tgncccggcc ggccgtcgaa 660

agggcgaaat tcaac

675

<210> 1270

<211> 268

<212> DNA

<213> Homo sapiens

<400> 1270

ccatcctggg	cggagctaaa	gttgcagaca	agatccagct	catcaataat	atgctggaca	60
aagtcaatga	gatgattatt	ggtggtggaa	tggcttttac	cttccttaag	gtgctcaaca	120
acatggagat	tggcacttct	ctgtttgatg	aagagggagc	caagattgtc	aaagacctaa	180
tgtccaaagc	tgagaagaat	ggtgtgaaga	ttaccttgcc	tgttgacttt	gtcactgctg	240
acaagtttga	tgagaatgcc	aagactgg				268

<210> 1271

<211> 307

<212> DNA

<213> Homo sapiens

<400> 1271

cctactcttc	tccgtccatt	gtactatctg	cccgtggtgg	ggatggcagt	aggatcatat	60
ttgatgactt	cggagaagca	tattattggc	ttcgtcataa	tactccagag	gatgcgaagg	120
tcatgtcctg	gtgggattat	ggctatcaga	ttacagctat	ggcaaaccga	acaatttttag	180
tggacaataa	cacatgggaat	aatacccata	tttctcgagt	agggcaggca	atggcgtcca	240
cagaggaaaa	agcctatgag	atcatgaggg	agctcgatgt	cagctatgtg	ctggtcattt	300
ttggagg						307

<210> 1272

<211> 798

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 613, 619, 703, 726, 773

<223> n = A,T,C or G

<400> 1272

ccattgctag	aaattgaatc	acaaataata	gctaataatt	tttcattttt	caaaaaagat	60
catttgata	gcagctatgt	ataaaatgga	aaataaaaaa	ttattctatt	ttgcatgaat	120
agttcagact	ttcccatacc	acagccaagc	agtaactaaa	attaggatct	taattttcaa	180
tgataaaagg	tctaagggtc	atttaattat	gtccttttaa	cactgtcttt	ctagattttt	240
caccagtat	tttcaaaatt	tgggaatgta	aacaattgat	atattttattg	tatgttggct	300
agcagttcat	ccttctgcaa	aatatgcatt	cagagaaatg	tgaagcttgt	tttaatgaag	360
acttaaacca	tttgtgtcat	tttgtgtttc	atattcaaat	acaccaaatt	aaaattctga	420
acctatattt	ttcatcatta	acttccta	ataccagAAC	atataccttt	ttcatgtaaa	480
gttggcaatg	ggatatggca	gtttttat	tgaaaaaat	gtaacatgac	tttaatat	540
ttatagtttt	cagaattaga	aacataggaa	gggaaaatgt	tttaattaga	taagtcaact	600
ttttatgggc	tgnagtggng	actataatag	caaattataa	agcattatta	aatggttata	660
ataattttta	tattacctca	ttatgaatta	actaaaataa	agnggagtga	tattttta	720
gggtgntcat	actggagctc	ctgagatata	tgatttgcta	ttgactcact	ggntgattga	780
ataatatatt	actcgcg					798

<210> 1273

<211> 664
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 623
 <223> n = A,T,C or G

<400> 1273
 aaaatatacc ttttcacagg tagcaagaaa tagtacatgt aataagtctt tatgactgga 60
 atgatccaga aatatcacaa agcatgagta aacacatata taaaagtagc tcatcatttc 120
 caaaagttaa ccttttagcct ttgtgtataaa taaatgggtgc caacaatctt tataatgtag 180
 caagctttcc ctgtttaata tccaaaaaat ggaggggtggg gaggttgaag aaaaataaga 240
 aaagttagca aataagatag tgaaaagacc aatgcagaga aaagtttatg taatcaaadc 300
 ttgctttgtc tccacattat cacattttta gtggataaat ttatgtaaac agaaaaagat 360
 gtccacaaaa ccataatctat agatgtcatt tggaagcatc aagaaattga taagtatgtg 420
 gtgaattaaa attactttta taatgttttg ctttcattaa tgtttggttat tgcaaaaatg 480
 taagatttcc tacaattttg tcttcaaadc ccaatctagc ccttcaaact tttatccagg 540
 ttctccagaa tatttggagt ctttggtatc aaagcacaag gaaagctggc attcattatc 600
 agacttcgct gctttacaat ganttcaaadc catttcatga tacaataaaa gtgcctctga 660
 ctgg 664

<210> 1274
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 1274
 ccacaataaaa gtttacttgt aaaatttttag aggccattac tccaattatg ttgcacgtac 60
 actcattgta caggcgtgga gactcattgt atgtataaga atattctgac agtgagtgc 120
 ccggagtctc tgggtgtacc tcttaccagt cag 153

<210> 1275
 <211> 504
 <212> DNA
 <213> Homo sapiens

<400> 1275
 aaaattctga taaaaattta ctcaattaca ttttatacat taatatttag tgaatttgtc 60
 caaaaaggct atgtttaatt tatgtgtaaa aataacaaaa gatgtatcag tcagtctctg 120
 ggcaataaga aaggaagaaa gccttgctag aaataataaaa taatctcacg caaaaggcca 180
 ggtgacataa gaataactaca ataatacaata tgttttcttt gtattttacaa taaaatccat 240
 ctgttaacac tgtgatagaa aaaataatca gtccacatca tgtaataaaa acaggctttg 300
 aggatgatta tacctcttat aataaaaaaca tacaaggatt tctcacagct aaagtacttt 360
 tcaactttga caactaatga cagtcattggg tgaaggtaaa actgacagag tacttttagat 420
 cagctatgtc ctacagtcaa ggaatcaagg gcattaccca tttaccaagc agcaaaaagc 480
 actttcattt ttccagaact attt 504

<210> 1276
 <211> 533
 <212> DNA
 <213> Homo sapiens

<400> 1276

```

gacaatgatg tcactgtttg gagccccag ggcaggattc atcaaattga atatgcaatg 60
gaagctgtta aacaagggtc agccacagtt ggtctgaaat caaaaactca tgcagttttg 120
gttgcattga aaagggcgca atcagagctt gcagctcatc agaaaaaat tctccatggt 180
gacaaccata ttggtatctc aattgcgggg cttactgctg atgctagact gttatgtaat 240
tttatgcgtc aggagtgttt ggattccaga tttgtattcg atagaccact gcctgtgtct 300
cgtcttgtat ctctaattgg aagcaagacc cagataccaa cacaacgata tggccggaga 360
ccatatggtg ttggtctcct tattgctggt tatgatgata tgggccctca cattttccaa 420
acctgtccat ctgctaacta ttttgactgc agagccatgt ccattggagc ccgttcccaa 480
tcagctcgta cttacttgga gagacatatg tctgaattta tggagtgtaa ttt 533

```

<210> 1277

<211> 78

<212> DNA

<213> Homo sapiens

<400> 1277

```

ccacaggaag ttgcaaaaat tagatggact ctgtgtagct agccactctt gagtgtcagg 60
tctgcatatg tgagtttt 78

```

<210> 1278

<211> 560

<212> DNA

<213> Homo sapiens

<400> 1278

```

aaatatctaa aacaatggcc cactgaagaa aggaacaatt aactctttaa ttaattcctt 60
aggataagta cccagaaatt taacagctag ggcagacttc taatacaata ccgaaagtcc 120
ttccaaaaac caagtgggtg ccaacttatg tcccttagca ttataacatt cttgagccaa 180
tagtgtaaaa atacgctgac aatttttatag gcaaacatta ctcaagggtat cttactttcc 240
acttattact aaagtaatta acccctaaat agatgctcct caacagtggg actacatcct 300
ggtaaacctc tcataagttg aaactatcaa gttgaaatgc atttagtacc cggataaacc 360
tatcataaag ttgaaaattt gtaaatlgaa ccagtgtaaa tcagaggcca tcttacttca 420
tactcatgaa gcaactatag tgggatattt ttcaacttac gagatagcct aggcttggtg 480
aaacactgtc ctaatttact ggctctctgg taattaagtc ataaatggtc aaacatcaaa 540
ttctagaaaa gcatatattt 560

```

<210> 1279

<211> 580

<212> DNA

<213> Homo sapiens

<400> 1279

```

aaaggagatt gtttcaaaat atttttgcaa attgagataa ggacagaaag attgagaaac 60
attgtatatt ttgcaaaaac aagatgtttg tagctgtttc agagagagta cggtatatatt 120
atggtaattt tatccactag caaatcttga ttttagtttg tagtgtgtgg aattttattt 180
tgaaggataa gaccatggga aaattgtggt aaagactgtt tgtacccttc atgaaataat 240
tctgaagttg ccatcagttt tactaatctt ctgtgaaatg catagatatg cgcagtgtca 300
actttttatt gtggtcttat aattaaatgt aaaattgaaa attcatttgc tgtttcaaag 360
tgtgatattt ttcacaaatg cttttttata gtcagtaatt cagaataatc aagttcatat 420
ggataaatgc atttttattt cctatttctt tagggagtgc taaaaatgtt tgtcacttaa 480
atttcaagtt tctgttttaa tagttaactg actatagatt gttttctatg ccatgtatgt 540
gccacttctg agagtagtaa atgactcttt gctacatttt 580

```

<210> 1280
 <211> 307
 <212> DNA
 <213> Homo sapiens

<400> 1280
 aaacacatac gaagaaatca actgtgatta tgaagtggca gccagctaaa tatgtcttgt 60
 atttgctctc ttcctttttt tgcctaactc atcctttact tccattcctg cttccatggt 120
 aatgcaggct caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180
 ctcataatat gataagcatt tggtacaaga ttgcctgtag ttgttttaggg gataaattat 240
 attagggaaa gaaagtcttt ctttagttgg tttaaattttc tattataatt gggtactaaa 300
 tttatatt 307

<210> 1281
 <211> 235
 <212> DNA
 <213> Homo sapiens

<400> 1281
 aaaatatttt aatagttaca tagcacttta gtttgctgat ttaattttatc ccaagggaca 60
 aggatgttaa tgagaaaact gactagattt cagatcacag attttaagag aacaaggatc 120
 tcaaaaccaa ataccctctg cttaaagtgt tttttgtgtt tttcactact gaaaatgttt 180
 agagattgac ttacctattg ctgatactca aaacatctga tatcttaata ttttt 235

<210> 1282
 <211> 230
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 194
 <223> n = A,T,C or G

<400> 1282
 aaagaatttc tttataagat tkactgtmta agattaatag cattcgaaga tccccagact 60
 tcatagaata ctcaaggaaa gcatttacct csgtcgctga ccackctarg ggcsawggcc 120
 agcacactgg cggccgttac tagtggatcc gagctcggta ccaagcttgg cgtaatcatg 180
 gtcatactgt attnctgtga ggtaccagat tgccctgtagt tgttttagggg 230

<210> 1283
 <211> 638
 <212> DNA
 <213> Homo sapiens

<400> 1283
 aaacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60
 ttatatattag cgacaagtag aaaggattaa atagtcaaat acaagaatga aaaacgcagt 120
 acatagtgtc gcgaactcaa atcggcatth agatagatcc agtggtttaa acggcacggt 180
 tttgcttata aaaaaagtgc aaaaaagatg tggttttaca gttaaagcta cagaatccct 240
 ttttgctgta attgcaccag ttttaaagcc tctggacaga gcagtatttc gtttaaaact 300
 ttgttyttct taaaagctta cagtgttttg ctaattctcc tcyccttttt acaagacggg 360
 ggccggaggg tggacactgg tggcagggtta agggatactg tcactttaag aagcctgcag 420
 attgaagtgt aaacatggag aaattagggg ctgatttttt aaactgtgtg agatattaac 480

```

cagccgcctt gttataaaat caggaaatcc aaacagcgat ttacaccgat taacaccccc 540
tttatatatt ttttacaaaa atacactgag aaaataatca aacgttttca tctctcttgt 600
ctttttttgt tttttaaaag tgtcaaaagt ctacattt 638

```

```

<210> 1284
<211> 745
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 715
<223> n = A,T,C or G

```

```

<400> 1284
cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttttga 60
atttacacca agaacttctc aataaaagaa aatcatgaat gctccacaat ttcaacatac 120
cacaagagaa gttaatttct taacattgtg ttctatgatt atttgtaaga ctttcaccaa 180
gttctgatat cttttaaaga catagttcaa aattgctttt gaaaatctgt attcttgaaa 240
atatccttgt tgtgtattag gtttttaa ataccagctaaa ggattacctc actgagtcac 300
cagtaccctc ctattcagct cccaagatg atgtgttttt gcttacccta agagagggtt 360
tcttcttatt tttagataat tcaagtgtt agataaatta tgttttcttt aagtgtttat 420
ggtaaactct tttaaagaaa atttaatatg ttatagctga atcttttttg taactttaaa 480
tctttatcat agactctgta catatgttca aattagctgc ttgcctgatg tgtgtatcat 540
cgggtgggatg acagaacaaa catatttatg atcatgaata atgtgctttg taaaaagatt 600
tcaagttatt aggaagcata ctctgttttt taatcatgta taatattcca tgatactttt 660
atagaacaat tctggcttca ggaaagtcta gaagcaatat ttcttcaaat aaaanggggt 720
taaactttta aaaaaaaaaa aaaaa 745

```

```

<210> 1285
<211> 190
<212> DNA
<213> Homo sapiens

```

```

<400> 1285
cgacggtatc gataagcttg atatcgaatt cctgcagccc gggggatcca ctagttatta 60
atagtaatca attacggggg cattagttca tagcccatat atggagttcc gcgttacata 120
acttacggta aatggccgcc accgcggtgg agctccagct tttgttccct ttagtgaggg 180
ttaattgcgc 190

```

```

<210> 1286
<211> 153
<212> DNA
<213> Homo sapiens

```

```

<400> 1286
ctgcatcttt ctacaattct accagcaata tatgagggtt acaatttctc yccatctttg 60
tgaacgcttg ttagagtctg tcctcttttc ttccattctg tgggttggct ttttactttc 120
taaatggtag aaccttcaaa gcacaaaggt ttt 153

```

```

<210> 1287
<211> 232
<212> DNA
<213> Homo sapiens

```

<400> 1287

```

aaaaacacaa aacactagaa cagttgctat gaaattactg ataatgatcc ctttaataaa 60
ctgcaattaa ccactaatat agaaattcaa tttaagcaag aagttttata tattatactt 120
tacagaaaaa aataattttg aaaaagtaat gmcaaacaga gatcaaacaat ttagggcatt 180
agttactgca ttctcttttt agaatatata ttaagtaaca ctagtaaaat tt 232

```

<210> 1288

<211> 90

<212> DNA

<213> Homo sapiens

<400> 1288

```

aaacttagtg actatttagt tcaattgytc atccattttt tatttgcttt tataattgcc 60
tccttgtttt ggtatattgt aaaataattt 90

```

<210> 1289

<211> 670

<212> DNA

<213> Homo sapiens

<400> 1289

```

aatcacaaa gtaaggcacc attggattaa acatttctcc tggcttttac taagtaaaat 60
gcatagtga ataaatactg aacactgagt tttaatactg taatacattt caatataaaa 120
taagagggtga atgttaaaat actgtattac atgttgaata catttatctg aaaatgttat 180
aaaaaaacac acatgtaagc tctgatttca gggaagaaaa attcattttt gtaattttcc 240
atagtttaag attttaccac agaacttatt catagtttta gatgcaatta ggttgcaaac 300
tttcaaagaa aggggtgtagg tgtattaatg aaacagtcac ttaaactacta cattctaaaa 360
caatctattc tggatgaatg gcaactttga gctatcaccc tgtttcagat ttagaacggg 420
acctgccaaag ttcagatatg caaaggaatt gtccaattct tactaccctt tataaaattc 480
agactcactt tctctgagtc agacttttct ccgtcatatt ttctaggaag ggcaaattcc 540
atctttttgtg aaatgggtca ttaggcttta tcatagggat gtttttctact gttgaaatca 600
gataaaagaa tcccaaataa atgatgctgc taaattacca aactgctaga gattaaaaaa 660
attttttttt 670

```

<210> 1290

<211> 352

<212> DNA

<213> Homo sapiens

<400> 1290

```

aaacaatgct acacccattt ttggcaaagt gctgtattgt tcagtctgtg tacaaaactg 60
accatctatg aaccaatcag tataaaaaat ttctataaaa acaaaattta gacagtggct 120
caagaaaaca agctgccatt tatgcataga ttgatgtaca gtaacctaac caaatgtccc 180
ttttgaattt tcaagttact gaaaaaaaat gtgtcgagaa acacattaag aaggcacatg 240
tacagtctac aatactcttc agtctcccta actcatgccc tgcccctata aaggaaatat 300
gttcacaatt ttacttgaga aaaaaaaaca aagccactta aaaaaaaaaa aa 352

```

<210> 1291

<211> 99

<212> DNA

<213> Homo sapiens

<400> 1291

```

aaaaattatt taaggtaatg gtgttacgaa tggtttataaa atgtctggtg acttgcttat 60
ttttaagtga tcaccattaa gtcagaaaaa tgtatTTTT 99

```

```

<210> 1292
<211> 295
<212> DNA
<213> Homo sapiens

```

```

<400> 1292
aaatatacct ttatttctca aactcaaagc tttatcaagt tctaacacat tttgcattga 60
caagtgattt tatctgcac aagtaagggt agtgaccacc acgaaagagg aatccccaga 120
cctcctaggc actaagaaat atttcaaagg ctatgcaa atagaacaaa aagctttcaa 180
tttagtctaa ttggtatcta tttttcatct atattaattt ggaaataagt tgctacctta 240
gaaaaattac atttttatcc attaaaataa aacaccagat aggttgagtt ttttt 295

```

```

<210> 1293
<211> 256
<212> DNA
<213> Homo sapiens

```

```

<400> 1293
agattcactt caaagtga aaatgacaac atctcaagaa actcaaagaa tcatactgtc 60
aaagacaggg tgttccaatg aattcactca ggtttctctt tgagggtcag agaattgctg 120
ataatcatal tccaaaggaa ctgggaatgg aggaagaaga tgtgattgaa gtttatcagg 180
aacaacaggg gggtcattca acagttaga tgttcttttt attttttttc ttttccctca 240
atcctttttt attttt 256

```

```

<210> 1294
<211> 90
<212> DNA
<213> Homo sapiens

```

```

<400> 1294
aaaatactta gctttattaa agacatggta ctaaaaataa cagattccaa catttgctct 60
atttctactt atatatacata aataagacag 90

```

```

<210> 1295
<211> 519
<212> DNA
<213> Homo sapiens

```

```

<400> 1295
ctgtcgcttt atcagtgcta tatttatctg gaatatagag gctcctttta ctgtttttta 60
ggtgctttgt gctaaggatg aagatacaat tcctcagctc ttggtagact tttgggaagc 120
tcagctagtg gcatgtctcc cagatgtggt acttcaggaa ctctttttca aactcacatc 180
acagtacatc tggagattgt ctaagaggca gcctcctgac accacacatc tgcgaacatc 240
ggaggatctt attctcctgg tcattccttg gtagatattt ggaataaaat aatcacactg 300
actgtgattg ggtagatcac attccatatt ctctgtgag tctcagaaga tgcttcattt 360
tgtagaacgg tgtaagtggg ttccattcca gcatgaatgt ggtcgggtcac atggcagtg 420
agtaacaaa ttccagggtg tcttggaac atttctaggg tttggtatgt tccagggaaa 480
atgtcaaaga catcagaact ataaactccc ctgtgcttg 519

```

```

<210> 1296
<211> 419

```

<212> DNA
<213> Homo sapiens

<400> 1296

```
aaagcaaaca gcagaaacca gaagcttctg accctctaac atgtattact gtccaaccca 60
ccatgagaag tatgttcact tggtgacaac aaagagactc cgtatcatat gtatgttaat 120
gaccagattg ttcatatggg atttttctta acagattatc aggttgagaa tgattctttt 180
tctccaaggg caagaaaaag ctggctaaat gctagttaat taaatccatt ctcaattttg 240
aactgtagag aagaacctga cttgaatgag attttctaaa ggaagacatt tcttgctcaa 300
cctcaggtat aattagatta taaggaatct cacgtccaga attttatctg ctgattgtta 360
gtatggtagg taattggcct taggacacta tttctactag aaccctttac attattttt 419
```

<210> 1297
<211> 199
<212> DNA
<213> Homo sapiens

<400> 1297

```
caggtctgaa gattttacat gcagatacca gataccttaa cttgtatttc tttagtcata 60
ttttggcttg gaagtttcct ctgttgctct tgctgaatcc ttcgctttac ctccattctt 120
aggtgctttg gagctggaag cagccttctt gcacttatcc tttgctgtgt tctgtgaggt 180
ttctgtagtg gagggacag                                     199
```

<210> 1298
<211> 484
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 437, 456, 467
<223> n = A,T,C or G

<400> 1298

```
aaatacactt gaaaagtaaa atgtttttct agcttttccc tcagggcgta acaccacacc 60
attcataaca atgctatttt ccaaagggtt caattagatt tcctcagaag catacctgaa 120
ctgttaaatca ttacaactcc tttgtgaaac atgggactgg ttgattaccc agtgtaatca 180
ctggctgaaa cctcagcaca ctgtttttca ccccagtgga ggcaggtttt cacctccct 240
ctagctgtac ccctctctta atgcccatat tagagaactg tgatcttctt tctccactag 300
aaatgttcac tttcatcagg taagggataa aacaaaaaca agagacagaa gatcttaaaa 360
aaaaaaatag taatagggca agtaaaactca gtgagggttag aggaatttgt ttgggggggca 420
ttctatgttg ttagytncat atcatgttca gtttgntggg tctaganccc tctgaaatgc 480
atta                                             484
```

<210> 1299
<211> 419
<212> DNA
<213> Homo sapiens

<400> 1299

```
aaagtccatc tttgcaaatt atacgttgct ataaatacat tgtgtatttg gcattatgtg 60
aatttgttta atccagtgtc aattgtctaa tgggtctaaag tgtcccatcg aagttataat 120
ctggatgaac tgaacaataa gagaagtttt cttcattagc ccaattgttt atcactcaat 180
tcctactcct gcccatgggt tcttccacct tcctctggag aacataaaga gattctagat 240
```

```
<210> 1300
<211> 182
<212> DNA
<213> Homo sapiens
```

```
<400> 1300
centngaatt  gtgtgcatag  ggaagcactc  acccaatgag  actttctcca  atgtggactc  60
tgtgtgtcag  ggaatgaatg  tagaaaaatt  cactttggag  ggttatcac  tcaactagta  120
agaagcatta  atattattaa  agtgaagaaa  ctgcagagaa  aattacagaa  caaaactgta  180
gg                                                  182
```

```
<400> 1301
aaagttttta tctctgctga ggcttcacat ctgtttgctc aatttttat ttattttcaat 60
ccttgagcat gtttataata tagtagtata cccttattgt ggctttactt tcctcacttt 120
cagtcaccca cagtcaaaaa atatgaaata taaaactcca gaagtaaaca gtttataaat 180
tttaagtcac actttgttct gaggaatgtg atgcaacctc ccgccattct gctgtatcca 240
gttcaggatg tgacataccc ctttgctcag cagatacaca attcctgctt cctgctcatt 300
agacatttgc ag 312
```

```
<400> 1302
attccttagat tatatgtgtc catctttgca gctttctgag agtaatttta tttgttgtct 60
tctgaaatgt acatgtatac atgtacctac tgagtgcctat gtgattttt 109
```

```
<400> 1303
ccagagttac ttggatcagc atttaggaaa gtaaaatata gtggaagtaa aactgactca 60
tccaactaga cattctacag aaagaaaaat gcattattga cgaactggct acagtaccat 120
gcctctcagc cagcccggtg gtataatatg aagaccaa at gatagaactg tactgttttc 180
tgggccagtg agccagaaat tgattaaggc tttctttggt aggtaaatct agagttttata 240
cagtgtagat gtacatagta aagtattttt gattaacaat gtattttta at aacatatcta 300
aagtcattcat gaactggctt gtacattttt 330
```

<210> 1304
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 1304
 ccactgtagt ctgcatatcc ctgtccatat ccatagttcc catagttata cccagtataa 60
 tcatatccgc catagccact atagttttga tcaccacccat aggcactatt gtaatttcca 120
 taticcttgat cataatagtt attaaatcct tggttccagt tttggccctg 170

<210> 1305
 <211> 468
 <212> DNA
 <213> Homo sapiens

<400> 1305
 aaaaataaat atttatactc cagcttttgt gtattttggtg tacatcacca cttatgcaaa 60
 tcaaggatca gaaaactgga ggtagccat ctccattatt tccttttgca cattgggtac 120
 agtgggtggc attagtatgc actagctgca aagtcacagc accttatgga aataagtatg 180
 tttattataa taataaaaaag ttaagctgca tctctgtaga ttatttactt tgcagactgt 240
 aaagctgccc tatcttttcc agcagaattt actcttccat tcttaattct tttttgaaat 300
 atcttaaata atttaacatt cttttataac ttcttaacag tgtcaaaact ggggtagaag 360
 ggatttttatt ttttcccaaa agggttccat ctttgctatc tgttgatcag ccttagaaaa 420
 tctaagtatg atcaataaat tttaatgggt gatggcatcc tgtgtcag 468

<210> 1306
 <211> 326
 <212> DNA
 <213> Homo sapiens

<400> 1306
 tggtaaagaa ctacctgtta atgcacaaaa ctatgtgcga tttattgaag atgagcttca 60
 aattccagtt aagtggattg gtgttggtta atccagagaa tctatgattc aactctttta 120
 atgattgcca gtaatgcaag aaacactcct tgagagggag gggaaaagac tttcttaaat 180
 atttcattta tgacctgcaa attcaagaat aaagacactg aagtaagttt gaagccctac 240
 agytgtttcc agtcttttca gatggatgcc tactgtggag attaactttg gcatattcca 300
 gtgtcagctt tcttttagctg gaattg 326

<210> 1307
 <211> 614
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 294, 442, 458, 465, 580, 592, 609
 <223> n = A,T,C or G

<400> 1307
 aaaaattatt actgtaagaa atagttttat aaaaattat atttttattc agtaatttaa 60
 ttttgtaaat gccaaatgaa aaacgttttt tgctgctatg gtcttagcct gtagacatgc 120
 tgctagtatc agagggggcag tagagcttgg acagaaagaa aagaaacttg gtgttaggta 180
 attgactatg cactagtact tcagactttt taattttata tatatatata ttttttttcc 240


```

ttctgcaata catttgaaaa cttgtttggg agactctgca ttttttattg cggntttttt 300
gttattgttg gtttatacaa gcatgcgttg cacttctttt ttgggagatg cgygtytgyt 360
gatgttctat gttttgtttt gagtgtaggc tgactgtttt ataatttggg gagttctgca 420
tttgatccgc atcccctgtg gnttctaaag gggatggnc tagnaactg ttgcatggat 480
cctgtgtttg caactgggga ggacagaaac tgggggtgat agccagtcct gccttaagaa 540
catttgatgc aaagaatggg accctgcccc ggggccgggn cccctccgaa anggggggga 600
aatcccang cacc 614

```

```

<210> 1308
<211> 304
<212> DNA
<213> Homo sapiens

```

```

<400> 1308
ctgtcttttg gaggacgtac gtaataaggt ttttaatttag taaaccaatc ctatgcatag 60
tttcagcact agccaaacct caccaactcc tagttctaga aaaacaggca cttggcagcc 120
ttgtgatgtc atacagagaa gtcacaggca gtacctgagg gtctgtagggt tgcacacttt 180
ggtaccagat aacttttttt ttctttataa gaaagcctga gtactccaca ctgcacaata 240
actcctccca gggttttaac tttgttttat tttcaaaacc aggtccaatg agcttttctga 300
gcag 304

```

```

<210> 1309
<211> 289
<212> DNA
<213> Homo sapiens

```

```

<400> 1309
gggatttcca attaacagta ttaccagata aatattcttg gtccaagcag aaaatatcaa 60
caaaaagagc cttcttctcc tgtaaactct aaatgcctac atcactcttt atgatacatg 120
gatcatctta tgtggatact taaatttttc atgtctgctt cttttgcctc tcccaactat 180
actatgagga aattcggaac aaagacattt ttgtaatatt tcttatctcc ttcacaccta 240
gtatagagct gattttataa aggcatttaa gagatatttg aattgattt 289

```

```

<210> 1310
<211> 534
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 480, 490
<223> n = A,T,C or G

```

```

<400> 1310
tgctttgcat tttctgatgt attacatgac tgtttctttt gtaaagagaa tcaactaggt 60
atttaagact gataatttta caatttatat gcttcacata gcatgtcaac ttttgactaa 120
gaattttgtt ttactttttt aacatgtgtt aaacagagaa aggggccatg aaggaaagtg 180
tatgagttgc atttgtaaaa atgagacttt ttcagtggaa ctctaaacct tgtgatgact 240
actaacaat gtaaaattat gagtgattaa gaaaacattg ctttgtgggt atcactttaa 300
gytttgacac ctagattata gtcttagtaa tagcatccac tggaaaagggt gaaaatgttt 360
tattcagcat ttaacttaca tttgtacttt agagtatttt tgtataaaat ccatagattt 420
attttacatt tagagtattt acactattga taaagtttgt aaataatttt ctaagacagn 480
ttttatatan gctacagggt gccctgattt tcttattgaa tttggttaga ctag 534

```

<210> 1311
 <211> 114
 <212> DNA
 <213> Homo sapiens

<400> 1311
 aaaatttgta ggagttgtag actacctaaa tttttaagtt atggyatttg gtcataagggtt 60
 gactgggtag gtaaagaagg aaacagacaa gaaaatggct tcttgagggtg gcag 114

<210> 1312
 <211> 95
 <212> DNA
 <213> Homo sapiens

<400> 1312
 gggcgggtaa aggtaggccg cgagagcgag gttaggagag gataggaggc cgcagtactg 60
 ctcacacgct ccgctcttct cccactctcg actct 95

<210> 1313
 <211> 519
 <212> DNA
 <213> Homo sapiens

<400> 1313
 aaatgataca gtatttttagg tatgatttaa gactatgatt tacctataca ttatatatat 60
 ttataaaaga tactaaacca gcataccctt actctgccag agtagtgaag ctaattaaac 120
 acgttttggtt tctgaataaa ttgaactaaa tccaaactat ttcctaaaat cacaggacat 180
 taaggaccaa tagcatctgt gccagagatg tactgttatt agctgggaag accaattcta 240
 acagcaaata acagtctgag actcctcata cctcagtggg tagaagcatg tctctcttga 300
 gctacagtag aggggaaggg attggtgtgt agtcaagtca ccatgctgaa tgtacactga 360
 ttcctttatg atgactgctt aactccccac tgctgtccc agagaggctt tccaatgtag 420
 ctcagtaatt cctgttactt tacagacagg aaagtccag aaactttaag aacaaactct 480
 gaaagaccta tgagcaaata ggctgaatac tttttttttt 519

<210> 1314
 <211> 518
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 247, 270, 329, 357, 419, 440, 498
 <223> n = A,T,C or G

<400> 1314
 ccatggtggg tgaagacgct gatctgccct gtcacctggg gtttttttatg agtgcagaga 60
 ccaggagagct gaggaacccc gagytccagc ctaaggcagg tgggtgaacgt gtatgcagat 120
 ggaaaggaag tggaagacag gcagagtgca ccgtatcgag ggagaacttc gattctgcgg 180
 gatggcatca ctgcagggaa ggctgctctc cgaatacaca acgtcacagc ctctgacagt 240
 ggaaagnact tgtgttatth ccaagatggn gacttctacg aaaaagccct ggtggagctg 300
 aaggttgcag gtgagcctcc aggttttngt ctgagaacac ttctctgtag gatctanagc 360
 agatgcagag tccctcttcc aaaagtactg cagacactcc tggctgctca ctagcaatng 420
 tctgcactgc ctcccaactn agcttctctg caacccttaa gaaagacaca ttctttcttt 480
 agaaagaatt cctgctgnac cttacatgcc gaagtaaa 518

<210> 1315
 <211> 360
 <212> DNA
 <213> Homo sapiens

<400> 1315
 tctgtgcatc caatttatta tagwtttgta agtaacaata tgtaatcaaa cttctaggtg 60
 acttgagagt ggaacctcct atatcattat ttagcaccgt ttgtgacagt aaccatttca 120
 gtgtattgtt tattatacca cttatatcaa cttatttttc accagkataa watcttratt 180
 tytacgacct atcattctga atcaagmaca ctgtatgttc agtaggttga actatgaaca 240
 ctgtcatcaa tgttcagttc aaaagcctga aagtttagat ctagaagctg gtaaaaatga 300
 caatatcaat cacattaggg gaaccattgt tgtcttcact taatccattt agcactattt 360

<210> 1316
 <211> 277
 <212> DNA
 <213> Homo sapiens

<400> 1316
 aaaaaacacg tttgttatta ccaaawagag acggcttttag gtaaaaataa taaaaaccct 60
 ttgcttgyat tacytatgca ratagttsta tttatctggw cwacgggyta aaggyacagy 120
 actataggwc tctggcttga gtmtttacgt tcattttctta ttgctggaat ktcataatttc 180
 ttcttgttgg atgactaaac cggatgatgg tagagatggg aagccggcat ttactcagcc 240
 ccgccctgct cagcctcggg agcggacgaa ttctcag 277

<210> 1317
 <211> 716
 <212> DNA
 <213> Homo sapiens

<400> 1317
 aaaatgttct cttgagacta gtaggcatag aagaaagcag aaggaaaata aatagaaaga 60
 aggtcttcta ccttcattggc tattcaggct caggagggtg gagagaaaaa gaaggaggac 120
 aaatgaacaa gacagatgag ggagacatcc tctctgatat aagatacagt cctctctggt 180
 ggatggagtc caatttgtgt aacttcctat gtattttcct agataggacc accactattt 240
 gagaaaatat ctactggta acctaaagcc aaggataata aaccttgata tacttaacat 300
 tcaatttctt tccagcaatg tgataaataa atctatcttg tgtttctctt gcagattgta 360
 aaagcattag aacattttaca tagtaagctg tctgtcattc acagaggtaa gcatccatga 420
 gctgccttgg ctgttccttt gataaagttc atctctttca cctggagtcc gtctctaccc 480
 ccagtccccc atgggtggaa gtagaattga ctcaggcaag agaactaagg ggctttcctt 540
 tgagattgga tagcaaacca tataagtagt attccttatt atggctgagg acataagaag 600
 aagacgtgat ctttgtctta catccaaatt gaataaaac acttggtagc aagcagagct 660
 atgagatcat atcattgaga atttttagaga atatgataaa aattgatctt gtctgg 716

<210> 1318
 <211> 515
 <212> DNA
 <213> Homo sapiens

<400> 1318
 aaagctgtat catgttgagt aaacctgacc tgagccagcg gtttaaggcg attttgctcg 60
 atgaaggcca agacgtgaac ccggtcattg ccgacttggg aaggatacag cgcactctgca 120

```

aagtaaccgt cggcgaccct caccagcaga tttaccgttt ccgtggtgcc gaagacgctc 180
tcaacagcga ttggatggcc gatgcagagc gtcactacct gacccagagc tttcgcttcg 240
gtccagcagt cgcgcagtgt gctaacaatca tactttttta caagggtgaa actcgaaagc 300
tgcaagggtt agggcccaaa acccagggtta aacgtgcgct tcctgaagac ctaccgcatc 360
gcacatacat ccatcgcacg gttaccggcg tcatagagaa cgcgcttagc ttggtagcga 420
gcaatccaaa gatctattgg gtaggtggca tgcacagtta ttcattgcgc gacctggaag 480
acttgtatct gttcagccgc aacccaaaacc aagcc 515

```

```

<210> 1319
<211> 141
<212> DNA
<213> Homo sapiens

```

```

<400> 1319
aaatttagtg tctcatttgg aaataaactc tgggcctatt agttgttgag tatttttttt 60
ttttactacc taaaaaaaga tttgttaaga gctgaattac aacttagcat tacataatat 120
aaaacactgt aatgtgtatt t 141

```

```

<210> 1320
<211> 497
<212> DNA
<213> Homo sapiens

```

```

<400> 1320
aaattcagtc ctaagaaaga ggagtgcctg tcccctaagg gtgtttaatg gcaaggcagc 60
cctgtctgaa ggacacttcc tgcctaaggg agagtggat ttgcagacta gaattctagt 120
gctgctgaag atgaatcaat gggaaatact actcctgtaa ttcctacctc cctgcaacca 180
actacaacca agctctctgc atctactccc aagtatgggg ttcaagagag taatggggtt 240
catatttctt atcaccacag taagtctcta ctaggcaaaa tgagagggca gtgtttcctt 300
tttggtactt attactgcta agtatttccc agcacatgaa accttatttt ttcccaaagc 360
cagaaccaga tgagtaaagg agtaagaacc ttgcctgaac atccttcctt cccacccatc 420
gctgtgtgtt agttcccaac atcgaatgtg tacaacttaa gttggtcctt tacactcagg 480
ctttcactat ttccttt 497

```

```

<210> 1321
<211> 344
<212> DNA
<213> Homo sapiens

```

```

<400> 1321
ctgtccaatg acaacaggac cctcactcta ctcagtgtca caaggaatga tgtaggaccc 60
tatgagtgtg gaatccagaa cgaattaagt gttgaccaca gcgaccagc catcctgaat 120
gtcctctatg gccagacga cccaccatt tccccctcat acacctatta ccgtccaggg 180
gtgaacctca gcctctcctg ccatgcagcc tctaaccac ctgcacagta ttcttggtg 240
attgatggga acatccagca acacacacaa gagctcttta tctccaacat cactgagaag 300
aacagcggac tctataacctg ccaggccaat aactcagcca gtgg 344

```

```

<210> 1322
<211> 110
<212> DNA
<213> Homo sapiens

```

```

<400> 1322
ccaccacata gccagccagg aatcccttga ggaacgggga ggacaacagc gagccaccct 60

```

ggcccactcc actgttgact tcgtcttcta cacgccgctg caggctttcc 110

<210> 1323

<211> 359

<212> DNA

<213> Homo sapiens

<400> 1323

ccacgctgct	ggcctgggct	ggcgtctcct	gctgtgagct	ggctgaggag	gacttcctgg	60
cggctctccc	cttagatccg	cgtatcgtg	aggtccacta	tgtcctgctg	gaccccttct	120
gcagtggctc	gggtgagatg	gtgagaaggc	gtggctgagg	gactcagagg	tccacagcag	180
cttagacctg	gagtcactct	ttttgggtct	agttctgaca	ctttaatggg	cttgggaccc	240
tggagcaaaa	gttctcctct	gtgaagcgag	gatttcagga	gcgaggattt	caggactgag	300
gcagcctgtg	aagctgtgta	accgagacac	gcttttcctt	aggtatgccg	agcagacag	359

<210> 1324

<211> 258

<212> DNA

<213> Homo sapiens

<400> 1324

caatcacaca	accacaaaaa	agatactgtg	tgctctcact	ttccaaaatt	ctgcctgggc	60
tmctcctgag	gaaagyagtg	atatggtagc	tggtgtggat	cccctaaagg	aattataaga	120
tggartgyga	rgaacattat	cttagactat	aakactgkct	gcatrcrgat	atgktstcra	180
agattattcc	tgctgcraat	aaagakmttg	skaaagagca	rtatasagct	atcacagtct	240
attgacccam	asatgttt					258

<210> 1325

<211> 534

<212> DNA

<213> Homo sapiens

<400> 1325

ctgtccaatg	gcaacaggac	cctcactcta	ttcaatgtca	caagaaatga	cacagcaagc	60
tacaaatgtg	aaaccagaa	cccagtgagt	gccaggcgca	gtgattcagt	catcctgaat	120
gtcctctatg	gcccggatgc	ccccaccatt	tcccctctaa	acacatctta	cagatcaggg	180
gaaaatctga	acctctcctg	ccacgcagcc	tctaaccac	ctgcacagta	ctcttggttt	240
gtcaatggga	ctttccagca	atccacccaa	gagctcttta	tccccaacat	cactgtgaat	300
aatagtggat	cctatacgtg	ccaagcccat	aactcagaca	ctggcctcaa	taggaccaca	360
gtcacgacga	tcacagtcta	tgcagagcca	cccaaaccct	tcataccag	caacaactcc	420
aaccccgtag	aggatgagga	tgctgtagcc	ttaacctgtg	aacctgagat	tcagaacaca	480
acctacctgt	ggtgggtaaa	taatcagagc	ctcccgggtca	gtcccaggct	gcag	534

<210> 1326

<211> 177

<212> DNA

<213> Homo sapiens

<400> 1326

ctgcattatg	tgtgttttaga	acgagaagtt	gtttgtacag	tattttttcta	ttgaccgctt	60
ccgtcttgcc	tgaaacctgg	gcattctttc	caatagacag	aaaatcagag	agtcaaactct	120
gatgcgcaat	gagttgttct	gagaccagta	atccacgggtg	ctgcaatttg	ggtttttt	177

<210> 1327

<211> 266
 <212> DNA
 <213> Homo sapiens

<400> 1327
 aaacttgttt tatctaatac tgagcactgt ttttttgtca agtatTTTTT taagaccaca 60
 taattctttt tgtctgctca aggaaaggat agataaataa ttggcacaca tttgtttctc 120
 actgaatttt acagtagtaa attaatgtta taatgtacca catggagatg agttggtaag 180
 aatcatcta gttccagagc ccagggatta taaacagtag gtgaaataga tttatgactt 240
 acgaaatatg ttgtgacaat atattt 266

<210> 1328
 <211> 409
 <212> DNA
 <213> Homo sapiens

<400> 1328
 ctgtccaatg gcaacaggac cctcactcta ttcaatgtca caagaaatga cgcaagagcc 60
 tatgtatgtg gaatccagaa ctcaagtgagt gcaaaccgca gtgacccagt caccctggat 120
 gtctctatg ggccggacac ccccatcatt tcccccccag actcgtctta cctttcggga 180
 gcgaacctca acctctctg ccaactcggcc tctaaccat ccccgagta ttcttggcgt 240
 atcaatggga taccgcagca acacacacaa gttctcttta tcgccaaaat cagccaaat 300
 aataacggga cctatgcctg ttttgtctct aacttggcta ctggccgcaa taatcccata 360
 gtcaagagca tcacagtctc tgcactctgga acttctcctg gtctctcag 409

<210> 1329
 <211> 136
 <212> DNA
 <213> Homo sapiens

<400> 1329
 ccattttcgc acagtccacc ataaaattga aaagattgac cagagacaga tcatggaggg 60
 cttggcaatc tgtactgatg aagccatgga ccagaagaga agtgagtcaa tgaagagagt 120
 ttctcttttc acatgg 136

<210> 1330
 <211> 311
 <212> DNA
 <213> Homo sapiens

<400> 1330
 ctgctaacag ccctaacggt gcaacacaag taaaaactca ggaacctctt cgactgccac 60
 gcccttcacc aacagaagga agacagtggc gccaccacaa gtggcagggc acaggggctt 120
 ctgtgacaac aatatgtcct tctagtatac attcattgca aaggctgccc tgaagtttcg 180
 tttttggaaa taactgttat catacatttt gtatgatgtt gcttgtgggc accatgaaga 240
 gagcctggct gtaaaggaca gagggagcta aaccaacaat gcatggccct gcgtgcccac 300
 aagagggagc c 311

<210> 1331
 <211> 613
 <212> DNA
 <213> Homo sapiens

<400> 1331

```

ctggggccakg agctgtgccc ggtgcctgca gccttcataa gcacacacgt ccattcccta 60
ctaaggccca gacctcctgg tatctgcccc gggctccctc atcccacctc catccggagt 120
tgcccaagat gcatgtccag cataggcagg attgctcggg ggtgagaagg ttaggtccgg 180
ctcagactga ataagaagag ataaaatttg ccttaaaaact tacctggcag tggctttgct 240
gcacgggtctg aaaccacctg ttcccaccct cttgaccgaa atttccttgt gacacagaga 300
agggcaaagg tctgagccca gagttgacgg agggagtatt tcagggttca cttcaggggc 360
tcccaaagcg acaagatcgt tagggagaga ggcccagggt ggggactggg aatttaagga 420
gagctgggaa cggatccctt aggttcagga agcttctgtg caagctgcga ggatggcttg 480
ggccgaaggg ttgctctgcc cgccgcgcta gctgtgagct gagcaaagcc ctgggctcac 540
agcaccceaa aagcctgtgg cttcagtcct gcgtctgcac cacacaatca aaaggatcgt 600
tttgttttgt ttt                                     613

```

```

<210> 1332
<211> 591
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 10
<223> n = A,T,C or G

```

```

<400> 1332
ctgagttaan atggtaaagc caatattatt ttaggaggaa agaggacgaa ggccaatgaa 60
ccaacatctg cctgctatct ggtgcatcac ccaagggtgac caatggctgg gcacaaataa 120
acttctcttt tgctagccac agagttgctc actgtggcaa gcctgagctg gtcagaacac 180
ctgtgtgtgt gttcctgata cacactaacc acaataagca agtctgcaca catctctatg 240
agcccccattgc aaagacaaga cattcccaaa gatcagtcac tagagtgcga caacgaaatt 300
caagatttga ccaaaacaga ccctgctgcc tcctaaattg ccaattgcct ctcaaaaact 360
tacagaaaaa gggacattat aagaattcat agagggagag aagaaaaagc tgctactcct 420
agtcattagt acaatgtgct gtgttaatta gatacctcta tataaattag aaaaagtgct 480
ttacttgcat gcttcaataa aatgaatact gagtgctcgt gtgttagatc tgtacagata 540
taaatttttt gcagctatat aaaagtgtat aagatgggct tttgcatttt a 591

```

```

<210> 1333
<211> 379
<212> DNA
<213> Homo sapiens

```

```

<400> 1333
ctggtacaaa ggcgaaagag tggatggcaa cagtctaatt gtaggatatg taataggaac 60
tcaacaagct accccagggc ccgcatgcag tggtcgagag acaatatacc ccaatgcac 120
cctgctgata cagaacgtca ccagaaatga cacaggattc tataccctac aagtcataaa 180
gtcagatctt gtgaatgaag aagcaaccgg acagttccat gtatacccg agctgcccac 240
gccctccatc tccagcaaca actccaaccc cgtggaggac aaggatgctg tggccttcac 300
ctgtgaacct gaggtcaga acacaaccta cctgtgggtg gtaaattggc agagcctccc 360
agtcagtccc aggctgcag                                     379

```

```

<210> 1334
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1334

```



```

aaaccatttg  tacaaaaactt  ctataaattt  ttctctctct  ttctctcttta  tgtacaaaaa  60
tatcttaata  tatccccgaa  ctgggttagg  tagatacaaa  tagatttttt  ataataaaaa  120
attcacaaaa  gattggaagc  attctataat  gaaaatggta  gaaaagacag  tgtgagggga  180
gccatggggg  ttgggaatcg  ggccctggag  gagaagcaga  gtttcaaagg  gctgagaata  240
gcatagtttc  actgtaaacc  aatgtctaca  gcttattggg  gtgggggcta  ctgagacgaa  300
agacaccaac  tcgtttctag  agggctaaga  actgcacttt  aagaaagggc  ggggaggtga  360
agggacccga  gcaagaactt  tcag                                     384

```

<210> 1335
 <211> 555
 <212> DNA
 <213> Homo sapiens

```

<400> 1335
aaattagttg  ctataaattc  atcaataactt  tttttcccta  ttatatTTTT  ggTtctatta  60
ggatttactt  aactgaatct  tataacaatt  cgagggtgaac  tgtggcaatg  aaaaccagaa  120
acagttaatg  agatgcttca  gctcacagtt  tgaagtgtctg  agaacctaa  tattttgctg  180
tacggtagtg  agctgtacca  aaatatgatg  gtttaggttt  atgtgcaaga  ctttgtgttg  240
tagtctagac  aaaggggtgg  gcaagagaca  tgcaaagctg  aagccctgct  tgaaaagacc  300
cttcaaggaa  gtaaaatggc  aggggcagag  tgcagcttaa  catgttgcta  tccctgttgt  360
ttttgagttg  gttttggaat  ggattcaagt  tcttacacaa  tttattttga  atacaagcat  420
aatctaggtg  atttgagtta  atgaacttct  tttcatgatg  tagggaaagc  tgaatgtata  480
tatttctaag  aagaatttgt  ttagcagatt  acaagttggc  aaaatagact  gttcacagaa  540
actaggcaaa  aattt                                     555

```

<210> 1336
 <211> 505
 <212> DNA
 <213> Homo sapiens

```

<400> 1336
cctggaaaga  agcccagcaa  aagggtccag  atgaagaaga  aaatgaagag  agtgacaacg  60
aaaaggaaac  tgaaaagagt  gactccgtaa  cagattctgg  accaaccttc  aactatcttc  120
ttgatatgcc  cctttggtat  ttaaccaagg  aaaagaaaga  tgaactctgc  aggctaagaa  180
atgaaaaaga  acaagagctg  gacacattaa  aaagaaagag  tccatcagat  ttgtggaaag  240
aagacttggc  tacatttatt  gaagaattgg  aggctgttga  agccaaggaa  aaacaagatg  300
aacaagtcgg  acttcctggg  aaagggggga  aggccaaggg  gaaaaaaaca  caaatggctg  360
aagttttgcc  ttctccgcgt  ggtcaaagag  tcattccacg  aataaccata  gaaatgaaag  420
cagaggcaga  aargaaaaat  aaaaagaaaa  ttaagaatga  aaatactgaa  ggaagccctc  480
aagaagatgg  tgtggaacta  gaagg                                     505

```

<210> 1337
 <211> 385
 <212> DNA
 <213> Homo sapiens

```

<400> 1337
ctgggtgctag  tcagagctaa  tgacagaatt  tcagtttaat  aaaaagaccc  ccaactgagc  60
acaccatctt  gaaaaaagta  tacttatcaa  acagctttca  atcagttcaa  gagagacacc  120
ttaattgggg  agaggaagaa  ttgcagagta  gtttgtaatc  atgccaatc  cagatcaata  180
actgcatgtc  tgttcttttg  tagaaatagc  ttttgcttta  tattaagtaa  tcacatatat  240
attctctcta  tttggataag  gaaaccttcg  ctttatttga  caatgtataa  tgatatactc  300
ttctaattca  cctctgtgtc  ttcacaataa  acatgagtaa  aatttagaca  agtgatggta  360
aagggtcaata  taattattta  ttttt                                     385

```


<210> 1338
 <211> 350
 <212> DNA
 <213> Homo sapiens

<400> 1338
 aaaggtgata ttacacaaaa cctcgtcttt tgttcaactt tggatccatt ggcaattcaa 60
 tggcctcaat ctccccaac tcgccaaagt actccctgat cttttcctca gtggcttcag 120
 gattcagacc cccaacgaag attttcttca ccgggtcctt cttcatagcc atggcctttt 180
 tagggatcaat gacacggcca tccagcctgt gctccttctg gtctaggacc ttctccacac 240
 tggctgcac tttgaacagg ataaacccaa accctcttga ccgtccagtg ttgggatcca 300
 tttttattgt acagtcaacg acctctccaa atttagtaaa atagtctttt 350

<210> 1339
 <211> 443
 <212> DNA
 <213> Homo sapiens

<400> 1339
 ctgctcctct agtaataagt tcctggggat aatacatata ccaacattgg ttgaaacata 60
 cctgagtaat catatcagga tgcattgtta gctgataaaa caataagatc ccaaaatgca 120
 gtagctcaaa aaaagtagaa gttaatttat ctctggggg acagctctgg ttctcaaatt 180
 ttacaggctc agaatacact gcagggtctg tgaaagtaca gattgctgcg ctccgcccc 240
 agagtctctg atttagtagg tgttaggctg aaccaagaat ttgcctttct aacaagctcc 300
 caagtgatgc tgatgacttg taggaatgga tttacttcta ggattagact tcagctcact 360
 ctgtttgctg aactctttct aatatttctt aagttggtag actcyctgct ccagggttctc 420
 aacgtgaagg aaggaacccc cag 443

<210> 1340
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 1340
 cctcaggaac aggtaggggc agcagaatag aatagcatcc atttcccaga gaaagactgc 60
 ctttacatkt cccatgcttt tagcaciaag cagcgtctgg gccactgtta ccagaggtga 120
 gtttatacat ttacaaaatg cttaaaatct ttgggaagca agaggaagct aaacagaagg 180
 tcccatgtta actgaaggca aattcactca acctctctag taagggaccc atgggcctac 240
 agagtgttcc ctctacaatg tgcagagtgg aaa 273

<210> 1341
 <211> 561
 <212> DNA
 <213> Homo sapiens

<400> 1341
 ccatgggccc ggtaacgaac aaaacggggc tggacgcctc gccctgggcc gcagatacct 60
 cctactacca ggggtgtac tcccgccca ttatgaactc ctcttaagaa gacgacggct 120
 tcaggcccgg ctaactctgg caccgccgat cgaggacaag tgagagagca agtgggggtc 180
 gagacttttg ggagacggtg ttgcagagac gcaagggaga agaaatccat aacaccccca 240
 cccaacaccc gccaaagacag cagtcttctt caccgctgc agccgttccg tcccaaacag 300
 agggccacac agatacccca cgttctatat aaggaggaaa acgggaaaga atataaagtt 360
 aaaaaaagc ctccggtttc cactactgtg tagactcctg cttcttcaag cacctgcaga 420

ttctgatttt tttgttggtg ttgttctcct ccattgctgt tgttgcaggg aagtcttact 480
 taaaaaaaaa aaaaaatttt gtgagtgact cgggtgtaaaa ccatgtagtt ttaacagaac 540
 cagaggggtg tactattggt t 561

<210> 1342
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 1342
 aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60
 ttaatacttc agaccttcaa aactgtggcc tgaaagttgt atatgttaag agatgtactt 120
 ctcagtggca gtattgaact gcctttatct gtaaatttt 159

<210> 1343
 <211> 76
 <212> DNA
 <213> Homo sapiens

<400> 1343
 aaaatgtaaa gccaatctat caccaaaaat ggcataaatg taaacacaag ctaattttat 60
 aatccactgc tatattt 76

<210> 1344
 <211> 726
 <212> DNA
 <213> Homo sapiens

<400> 1344
 caaaagcagc ctgaatacgc aactcacgcc aagagggcag cagctctcct gacatccatg 60
 taagaaggct aacaccta aa ccacacgcag gcatcctgaa ctcagcagct ctgatccaag 120
 gtactgagtg gagacaaagc actcggaggt ggcaagatgt tcagcaacca agtaagacac 180
 actggcaagg catcccaccc aaaggtgaga agcacaaagc aggcttggag aaacaaacag 240
 tcatgccagg tgcagccaga catcctgcta taagccctga ccctagtacc ccgagttcat 300
 caagtgctct ggttttgtgt ccataaagca cagagggcac tgaccacccc aaaccagaat 360
 cccaaggaat ccttatggat ggcataaggc ctcagaactg ctgcaggatc attttccttt 420
 tcaggtcgtg gctgaacttg ttcatacctga agagctcact gtcataaaat gcagagaggt 480
 tgtggatggt gatctgacga gccttatcca ccaagtcctt mtcagggacc tcaatagtgt 540
 cctgctgggc cccaaagcgg ttgcgctgat atgtcacstg ctctgccact aactgcttca 600
 gtatgaagag caacagctca ttgttgctac gccggaatga aaggtagcgg gcaaaagtct 660
 tgcgcacatgct gcgcacatgac ctgaacttct gtgtgtctat gaagstctcc akmatcayga 720
 gratgg 726

<210> 1345
 <211> 742
 <212> DNA
 <213> Homo sapiens

<400> 1345
 ccagagagcc ctgtcctgtg aggggtgggtta tcacagtggc aggggttcaat tcagaagacc 60
 ttgagggcag gctgatgttt cctgaatggg cccctgggtg ttgcttgctc ctgactctcc 120
 atttcccat ctgagtggat ttggacctaa tagggcactg gagctgggtc gaatcctgac 180
 tggactactt ggcaacttta tgtctgggag caagttactt aacctcccca agcctgtgtc 240
 tgtgaaatgc gggtaaatga atgtagatgt ttggcagcag ctactccttg ttgagctctc 300

```

acagtgaact ctctgcctc tgccttcctt ccccgccctc cctgggtgcct agcgtcaggt 360
ctagccactt cctcctgggc cctctccctt tttctgtggc tggctgcctg cccgcctggc 420
gctggacctt tcatgtaacg ggaatcagca tgtatattct ggtctggtct gtttctacac 480
ttaattttgt ttccagtagt atttccctgt accggcagag ttcacaaaca catttgaaga 540
ggctttttct caggattctt aaccttccaa aggaagtccc atggatgggt ttctagaagt 600
ctataaatgc tctgaaattg tatttttctg tggaaaagca taacttttat ctgcttggtc 660
gtgctcaaaa aaagatcatg aatggaatga attgcattga attttatgcc attgggggct 720
taataactaaa aggatatgga ag 742

```

```

<210> 1346
<211> 573
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 498, 543
<223> n = A,T,C or G

```

```

<400> 1346
aaatgcattk ttaacttaca gtattttcaa cttacgatgt gtttatcasg aagtaacccc 60
atcataagca gaggagcatc tgtattgcgt aatttgactg gcacagttaa ttaggttctg 120
ttcagtgwtt tccgtcaaca agatgtttat tgtgtgagta aacaagttaa gccctgtgac 180
aagctgaata agaatagtct ctctcagca gcttatagta aacaagggtg gtaatcctta 240
cattagtggc tagactatca aacgaaatat ataacatgta agaacactaa agacagaatt 300
actgtggcat agagatagtt agaattgctt cagcctaaga gatgaattag gtaatgcaag 360
gaggtgaata tgttggcctg caatatgaac aaggcagaga gctgggagag taagatgtaa 420
gttgctaagg agggatgtgt cttgagtttg gaaaccataa agggaaatca taggtaatgc 480
tagagtcact gatcttangg agccttgaat aacggatgat actaagggaa tctttatttt 540
ggnggggacta ttggaattaa attggccaga att 573

```

```

<210> 1347
<211> 333
<212> DNA
<213> Homo sapiens

```

```

<400> 1347
cctggtttct ggtggcctct atgaatccca tgtagggtgc agaccgtact ccatccctcc 60
ctgtgagcac cacgtcaacg gctcccggcc cccatgcacg ggggagggag atacccccaa 120
gtgtagcaag atctgtgagc ctggctacag cccgacctac aaacaggaca agcactacgg 180
atacaattcc tacagcgtct ccaatagcga gaaggacatc atggccgaga tctacaaaaa 240
cggccccgtg gagggagctt tctctgtgta ttcggacttc ctgctctaca agtcaggagt 300
gtaccaacac gtcaccggag agatgatggg tgg 333

```

```

<210> 1348
<211> 185
<212> DNA
<213> Homo sapiens

```

```

<400> 1348
aaaaaagctt gcagcaagaa aatgccagtg tgcaactggg tgactaaaga ccaaagaaaa 60
acagttaaaa gggacagctt acttgctctc tgtctcaggt ttaacttctc acctgaaatc 120
tctcatagcc ctaattaaac acaaacaaaa gtctcttcca tagataggct acttctcagc 180
ttcag 185

```

<210> 1349
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 1349
 gcggcagcga ggggctcgga gaggtgctcg gattctcgta gctgtgccgg gacttaacca 60
 ccaccatgtc gagcaaaaga acaaagacca agaccaagaa gcgccctcag cgtgcaacat 120
 ccaatgtggt tgctatgttt gaccagtcac agattcagga gttcaaagag g 171

<210> 1350
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 1350
 ttgtcatatc atatctatgt cacctgtgta ttctgagatt acacacatac ctgccaatat 60
 acctgggaaa gggtatttta tcacagttac acttgagttc ttggcaggca ggactgagga 120
 agagtaattt gaaagaagtt ttacatccta tttagaagaa atcactagta tttccttaaa 180
 taacagggtta caatagaaag atactgcctg gaagttatcc tttcactttg gttcattttt 240
 agttttttctt tatgatttac atagctgttt aattcatttg cttatagtac aatcctgcca 300
 taaagtatta aagcacaaga tacctattat tccttcaaca tctgcatttt tcaagtttta 360
 tactctacat ccacagtlacg tcagcagttc ttgaatgttt 400

<210> 1351
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1351
 ccaggaaagg gcagtcctga gggagaagac aggattcagg gcagtgctcc gaagctgtgt 60
 gctcacctgg ttggctcatc aaacctggca accctgtggc ctgtctgccg gagctgactg 120
 gatccactca tcaattcttc gtccccacta ctaagactgg gcatgttttg ctgggtgtgg 180
 ctctgcactt caggaatggg cacaacaggg ggtagccctc aaaagcactc ctttttctat 240
 acctcttctc aaggccatgt aagttgcccc tctctacctg gctgtggaca aaagggttatc 300
 tgctcttgg 309

<210> 1352
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1352
 ccacttcac tgtgtgggaa cgtgggtcagg ccgggtgctg gtgtttgaca tcccagcaaa 60
 ggggtcccaac attgtactga gcgaggagct ggctgggcac cagatgccaa tcacagacat 120
 tgccaccgag cctgcccagg gacaggattg tgtggctgac atgggtgacgg cagatgactc 180
 aggcttgctg tgtgtctggc ggtcagggcc agaattcaca ttattgaccc gcattccagg 240
 atttggagtt ccgtgcccct ctgtgcag 268

<210> 1353
 <211> 620
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 545
 <223> n = A,T,C or G

<400> 1353
 cctgagtaat tattccatca tagacaaact tgtgaatata gtggatgacc ttgtggagtg 60
 cgtgaaagaa aactcatcta aggatctaaa aaaatcattc aagagcccag agcccaggct 120
 ctttactcct gaagaattct ttagaatttt taatagatcc attgatgcct tcaaggactt 180
 tgtagtggca tctgaaacta gtgattgtgt ggtttcttca acattaagtc ctgagaaaga 240
 ttccagagtc agtgtcacia aaccatttat gttaccccct gttgcagcca gctcccttag 300
 gaatgacagc agtagcagta ataggaaggc caaaaatctc cctggagact ccagcctaca 360
 ctgggcagcc atggcattgc cagcattgtt ttctcttata attggctttg cttttggagc 420
 cttatactgg aagaagagac agccaagtct tacaagggca gttgaaaata tacaaattaa 480
 tgaagaggat aatgagataa gtatgttgca agagaaagag agagagtttc aagaagtgtg 540
 attgnggctt gtatcaacac tgttactttc gtacattggc tgggaacagt catgtttgct 600
 ttcataaatg aagcagcttt 620

<210> 1354
 <211> 398
 <212> DNA
 <213> Homo sapiens

<400> 1354
 aaaggattat ttttatgcaa agtattctgt ttcagcaagt gcaaatttta ttctaagttt 60
 cagagctcta tatttaattt aggtcaaatg ctttccaaaa agtaatctaa taaatccatt 120
 ctagaaaaat atatctaaag tattgcttta gaatagtgtt tccactttct gctgcagtat 180
 tgctttgcca tcttctgctc tcagcaaagc tgatagtcta tgtcaattaa ataccctatg 240
 ttatgtaaag agttatttta tctgtgtgtg catgtttggg caaatatata tatagcctga 300
 taaacaactt ctattaaatc aaatatgtac cacagtgtat gtgtcttttg caagcttcca 360
 acagggatgt atcctgtatc attcattaaa catagttt 398

<210> 1355
 <211> 371
 <212> DNA
 <213> Homo sapiens

<400> 1355
 ctggytcctc agtgggaact gagtcattac ctgctaaagg gtagaagagg agagagagag 60
 gccagagcct ggggatgggg cagaagggtgc agcaggaagg aagggttagag tgagaaaaat 120
 ttccaaataa ggggtgatgt gtgagtgtc agaggggtgac tgaggacatc tccagcattt 180
 ccattgagga gggaggaagg aggggccctt gggttctggg gcagatgccg gcaggggtctg 240
 gatgagatgc ccccaacctc aaccctgggt ctctgaaaac acttcacca gtcacactga 300
 ggagccctc caggcccagg ggcccctcca ggtaggcgta tctcagctcc tctctggaag 360
 gacccccaca g 371

<210> 1356
 <211> 338
 <212> DNA
 <213> Homo sapiens

<400> 1356
 gcggcgcggg cggcggtaaa atgtcgggtc caggacctta ccaggcggcc actgggcctt 60

```

cctcagcacc atccgcacct ccatacctatg aagagacagt ggctgttaac agttattacc 120
ccacacctcc agctcccatg cctggggccaa ctacgggggt tgtgacgggg cctgatggga 180
agggcatgaa tcttccttcg tattataccc agccagcgcc catccccaat aacaatccaa 240
ttaccgtgca gacgggtctac gtgcagcacc ccatacacct tttggaccgc cctatccaaa 300
tgtgttggtc ttcttgcaac aagatgatcg tgagtcag 338

```

<210> 1357

<211> 159

<212> DNA

<213> Homo sapiens

<400> 1357

```

ctgggctgct gcctctggag tacttccccg cagctcctca ttgctcacat agtaggcaat 60
ggcggttgctc tcaaacacac agaatccatc atcacctca aatgctggga ccttgccggc 120
aggaaatttg cggagaaatt caggggtgctg gttgggttg 159

```

<210> 1358

<211> 306

<212> DNA

<213> Homo sapiens

<400> 1358

```

cctgtcagag tggcactggt agaagttcca ggaaccctga actgtaaggg ttcttcatca 60
gtgccaacag gatgacatga aatgatgtac tcagaagtgt cctggaatgg ggcccatgag 120
atggttgctc gagagagagc ttcttgctct gtctttttcc ttccaatcag gggctcgctc 180
ttctgattat tcttcagggc aatgacataa attgtatatt cggttcccg ttcaggcca 240
gtaatagtag cctctgtgac accagggcgg ggccgagggg ccacttctct gggaggagac 300
ccaggc 306

```

<210> 1359

<211> 382

<212> DNA

<213> Homo sapiens

<400> 1359

```

agagggagtc cagcccccaa gccttggtgag gcactgttar gcagataggg aaaagagggg 60
tccttagatc actggttcaa ggagggatct ggtaggggca gcatttcttc tgggctggaa 120
acagaatggg ggtttcaaga tggcagaacc attccattat tggagctata agcccctaga 180
attgctccat ggctatctc gggttccctt ggatctcatc tgctcctgaa ctgcacctgt 240
catggcaagt ccatactcgg ccccatctc ccctgagcca atgtgagtca ggtgaacaaa 300
attcattggt tccccaatca tggtcgggtc aatccgtctt ctcttcttct ttcttctcca 360
ccatccagac gttcagctac ag 382

```

<210> 1360

<211> 365

<212> DNA

<213> Homo sapiens

<400> 1360

```

aaaaaacctt tcaaaataaa acttagtaaa atctagaact gkttcttggc ctacttgaga 60
ggaacttcca tattttcaca gccatctccg aaagcagcag ttgctgtaaa ttaactgaga 120
cttggaatg gtgcagactg tcttggtaga gctgttctta tagcacaatt ttatctggaa 180
aataaacttg taaatgcgtg ctgtatatta atacatgtgt gcccatattt atttttatta 240
tctcctgccg gtctttgctc aatgggagat gacagaccaa cttctcaacg tgatttcccc 300

```

atttcattga atgacattta tatgccactt atgaaaaaaaa tactgctgtg aaagaaatgt 360
acttt 365

<210> 1361
<211> 502
<212> DNA
<213> Homo sapiens

<400> 1361
gaggtatgga aaaatatcaa caaggaaata ttagatttga actgctgctt cgtagcaca 60
cagcacattc tccaggatat accatatgtt aggacacaaa acgggtctca ataaattttt 120
aaaagtcaaa atcttatcaa gtatcttctc agaccacaat ggaataaaac tggaaatcaa 180
taacaagagg aacttctgaa attgaacaga tacacggaaa tcaaactaca tgttcctgaa 240
tgaccactgt gtctatgaag aaattgattt taaaaattta aaaattcttt gaaacaaatg 300
aaaatagaaa cacagcatac aaaaatgtat aggggtacaac aaaagaagtg ctatgaggga 360
catttatctc aataaacacc cacatcaata aggtagaaag tttttaaaca aataacctaa 420
taaacgcata tcaaggaact agaaaagcaa gaacaaatca aacctaaaat tagaaggaaa 480
taaatagtaa agatcagagc ag 502

<210> 1362
<211> 545
<212> DNA
<213> Homo sapiens

<400> 1362
ctgattggat gtctaggaat gactgaaaga aacccaaaaca gcctgtccac tgctgctgtg 60
ggatggagga ggcgtaagca gaaacactaa cagtatactg acctcttagc agaaccgctt 120
ccattctgga gatcacggct gctaaatcca gcacccccac ttcattttac cccagcata 180
ttgttctgta gtcttttctt gaaacatctt gattgctttt cctcggcagc tttcaaaaaa 240
ccaaataata atagttatcc gtcttctact tcatggaaga ttgttttggg gccctgaccc 300
tctgaagtgc ccagttcctg ccattctgaaa cctcggcctg atctgatctc atgttggaat 360
ctgcctgtct ttcacacagg gctgggtcttg gtcctttaca tgccagtttt gcttgatgaat 420
tcttgctttt ttcctctcat cagccttaag tttaggcggt tggtgttctc cagtgatgta 480
gacagttccc ttcacaagtc acagttcttc ccataaatga ggcccgtga cctctgcggg 540
acttt 545

<210> 1363
<211> 286
<212> DNA
<213> Homo sapiens

<400> 1363
gggagatgca ggatgtagac ctgcctgagg tgaagccttt ggtggagaaa ggggagacca 60
tcaccggcct cctgcaagag tttgatgtcc aggagcagga catcgagact ttacatggct 120
ctgttcacgt cacgctgtgt gggactccca agggaaaccg gcctgtcatc ctcacctacc 180
atgacatcgg catgaaccac aaaacctgct acaacccctt cttcaactac gaggacatgc 240
aggagatcac ccagcacttt gccgtctgcc acgtggacgc ccctgg 286

<210> 1364
<211> 503
<212> DNA
<213> Homo sapiens

<400> 1364

```

ccatcaggat catgaaaaca aacttttggtg aatgtgagca actgcgccag acaggacaca 60
ggttacaggg cctgacgtca ctaacggtaa ctgacaatct tggaatggac cctactgctg 120
atgtttcaaa aggacacaga ggtgaactgg tcacttctaa ttaagaagag ccagtggggt 180
gggggaagct gaaaacaaaa aatccacgta gacatacgtg gcagtgtgaa cgtctgtcct 240
ccccttcctt ctctcactt cctctctctc tcctcactca ggctgggtatt ctcttgggtg 300
gcggatgtca gcttgccctg cagaagggct gccagttttt tagatgtctt tttgagaaac 360
gagctgcccc gatgggcaact gttcacgtgc aggtacaggt cctcctgggt ggggcccgtg 420
tagccgcaat cctcgcagac gtagagcttg tcccgcgcgt gcttataggc atactgctgc 480
tgcaccccat ggatttttctt cag                                     503

```

```

<210> 1365
<211> 245
<212> DNA
<213> Homo sapiens

```

```

<400> 1365
ctgggcggct ccacgctcat ccagtgggcc taggttctga ctgaccagcg aacaaaaact 60
gtgacagaga tctaggattt cattcaggca gtgaaacacc taccgggaa acagagttgg 120
cattaggaaa ggaaggaagg tacatccatg aagttaaagt gttaggagaa cagtctgatt 180
aatagctgat ctaattaata gctgacctcc caaatctgac aggatagaca ctgccacgtg 240
caagg                                     245

```

```

<210> 1366
<211> 131
<212> DNA
<213> Homo sapiens

```

```

<400> 1366
aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttggata 60
tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120
tttagatatt t                                     131

```

```

<210> 1367
<211> 430
<212> DNA
<213> Homo sapiens

```

```

<400> 1367
ctgtgcagtt atatgaccat aaaggaaatg aaccattaaa aatggatcta cagccatata 60
ttctgccgtt actcagaggc ttaatgattt attttcccc tccagccctg cctttaccag 120
gttaaattgac agaagacctt ctattgtacc tattgttcaa aaaatattac tgttctgtgg 180
aacctgggag agtccaattg ataagagaaa ctgaatcata ctgatgaggt gaaggatagg 240
tctgccggtg tggggcaggg cactctttct cagcagccaa gataacttat cacacacgaa 300
gcagagagaa tgcacccgat gaaaatctct ctgaactgtg ttccttgaag gatctcttaa 360
aaaaaaaaaa tctgaaacat catccattga acaaatgaaa ggcttatacc tttaccatga 420
agaaacattt                                     430

```

```

<210> 1368
<211> 294
<212> DNA
<213> Homo sapiens

```

```

<400> 1368
ctgggcggat agcaccgggc atatttttga atggatgagg tctggcacc tgagcagtcc 60

```


agcgaggact tggctcttagt tgagcaatth ggctaggagg atagtatgca gcacgggttct 120
 gagtctgtgg gatagctgcc atgaagtaac ctgaaggagg tgctggctgg taggggttga 180
 ttacagggtt gggaacagct cgtacacttg ccattctctg catatactgg ttagtgaggt 240
 gagcctggcg ctcttctttg cgctgagcta aagctacata caatggcttt gtgg 294

<210> 1369

<211> 429

<212> DNA

<213> Homo sapiens

<400> 1369

ctgaaggcaa tgggggactg aggaaggagg cagcagaagt aggagaggag caagaatcca 60
 gaagggaat gagaacgaca aaactgaagt gcacttcaac atcctgcagc caaaggggta 120
 aaaaggagaa agaagtgcag accagtcaca taaatgccac agtgacatgc acaaaaacgt 180
 gaggggcaca ctccagggac agagtctgac aacatgacaa gctacatggc atcaaactct 240
 ttcattgtgac aggcagcttt tcacatgtgc atcttaagac tgggaacttg ttagataaaa 300
 ccttaagtag ttaataaaaag caaaagtcac cctctattca ctgtttgctg ccatgttcca 360
 ggcatagtag ttggcacttt ttattttatt tcacttgatc agctcagaaa gtcttccaaa 420
 tgagtattt 429

<210> 1370

<211> 540

<212> DNA

<213> Homo sapiens

<400> 1370

ccactcccag gatgctgggt ctgccttgct ggctgggacc ccggagccgt cagtccacgc 60
 actcccggat gcactcaaca acctaaggac gcaggagggt tccggggatg gtccgagctc 120
 gtccgtagat tggaatcgcc ctgaagatgt agaccctcaa gggatttatg tcatatctgc 180
 tccttccatc tacgctcggg aggtagcgac gccccttttc ccccgcctac acactgggcg 240
 cgctgggcag aggcagcacc tgctttttcc ctacccttcc tcgattctgt ccgtgaaatg 300
 aattgggtag agtctctgga aggtttttaag cccattttca gttctaactt actttcatcc 360
 tattttgcat ccctcttacc gttttgagct acctgccatc ttctctttga aaaacctatg 420
 ggcttgagga ggtcacgatg ccgactccgc cagagctttt ccactgattg tactcagcgg 480
 ggaggcaggg gaggcagagg ggcagcctct ctaatgcttc ctactcattt tgtttctagg 540

<210> 1371

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1371

ttaaaatggt agcacaagag tctggcaagt tggtagtgca gagaaaaggg gttaattgag 60
 gcttggttgg agtcgggatt cccctttccc aaacatgcgt ctgccactt ggacagcagc 120
 catttgtagt cgtatacttt tt 142

<210> 1372

<211> 377

<212> DNA

<213> Homo sapiens

<400> 1372

ccaccatctg tgcaagtagc caaaaccact cctttttaaca cgaggaggcc tgtgatgctg 60

```

gcctgctatg tgtggggctt ctatccagca gaagtgacta tcacgtggag gaagaacggg 120
aagcttgtca tgcctcacag cagtgcgcac aagactgccc agcccaatgg agactggaca 180
taccagaccc tctcccattt agccttaacc cctctttacg gggacactta cacctgtgtg 240
gtagagcaca ttggggctcc tgagcccatc cttcgggact ggacacctgg gctgtccccc 300
atgcagaccc tgaaggtttc tgtgtctgca gtgactctgg gcctgggcct catcatcttc 360
tctcttggtg tgatcag 377

```

<210> 1373

<211> 504

<212> DNA

<213> Homo sapiens

<400> 1373

```

ccatgctaag tttgggaacc gctggtgatg ggacatggat gcttgcaacc gaccgtgggc 60
ggatgtgggt gaccagatgg cagaggacga caccatccat gagggctgcc cccaggtctt 120
cgtgcagact gaccttcaat ctcatctcaa tgctctcacg aagttgttcc accagctctt 180
tctcttctct catctgctcc attttctctc ggattgtaaa ctgcggttct atagattcca 240
aatttctctg aggtcttaga aacacagact cagaaatcaa atgaggatgt ctcaaaaagg 300
agtcactttt ccagaggcag gctgcccctt aactcagccg agcagcagga accactgggg 360
ccaaagctat tttatcttcc ttaggtataaa aaaaatcaat agaataattc tccccgctt 420
acatgctccc accactgatg aacgcgatct tcagcaagaa gaactttgag tccctctccg 480
aagccttcag cgtggcctct gcag 504

```

<210> 1374

<211> 201

<212> DNA

<213> Homo sapiens

<400> 1374

```

cctccgtaag atgcttgaca attttgactg ttttggagac aaactgtcag atgagtccat 60
cttcagtgtc tttttgtcag ttgtgggcaa gctgcgacgt ggggccaagc ctgagggcaa 120
ggctataata gatgaatttg agcagaagct tcgggcctgt cataccagag gtttggatgg 180
aatcaaggag cttgagattg g 201

```

<210> 1375

<211> 295

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 12

<223> n = A,T,C or G

<400> 1375

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ctgtgaggct gnttccaagg aggaaaacaa ggaaaaaaat cgatatgtaa acatcttgcc 60
ttatgaccac tctagagtcc acctgacacc ggttgaaggg gttccagatt ctgattacat 120
caatgcttca ttcattcaac gctaccaaga aaagaacaaa ttcattgctg cacaaggacc 180
aaaagaagaa acggtgaatg atttctggcg gatgatctgg gaacaaaaca cagccaccat 240
cgtcatgggt accaacctga aggagagaaa ggagtgcag tgccgccagt actgg 295

```

<210> 1376

<211> 318

<212> DNA

<213> Homo sapiens

<400> 1376

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ccagcgctac tgtactggcc cagggcagag ttcatgtatc tcgtcttgac cacgtctaca 60
ggggaggcga tgacagtggg gcagaagcct gcccacaagg cagaagtga gttggcaagg 120
agggtcatctg tcatgagggt ggctttcagg agggcatcct tgatgaggtc ataggtcacc 180
agctcagcac agttgacaat ggcattacga gcaacattgg gggagggtccc tttccagagg 240
ccccggaacc cttcctctcg ggcaatgggc ttgtaggcat tgacgggtgct ttggtatctc 300
cgaccacctc cagcccgg                                     318
```

<210> 1377

<211> 143

<212> DNA

<213> Homo sapiens

<400> 1377

```
gtggattccg ytccggggcac cgatctcgcc aagatcctga gtgacatgcg aagccaatat 60
gaggtcatgg ccgagcagaa ccggaaggat gctgaagcct gggttcaccag ccggactgaa 120
gaattgaacc gggagggtcgc tgg                                     143
```

<210> 1378

<211> 98

<212> DNA

<213> Homo sapiens

<400> 1378

```
aaatattggt aatagggtcgg caacagcaac tatagaagta caactcaata gatggcatta 60
aaacatattg tagtgtggat atatattttt tctttttt                                     98
```

<210> 1379

<211> 330

<212> DNA

<213> Homo sapiens

<400> 1379

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aaagatgttc acgttacgct ggaccaaatt aagacggctt tctccctctt gctgacgtgc 60
cccagccgtg ataatgacca gcttgagggt tgcagttaca ttatagtctt tgccagagac 120
aatcttttggg gttctaagga aaaggctgcc atggttgaga tccatcatct ctcccttcaa 180
tttgtcttcg acgacatcaa caagagcaag ttcatctgcc aagtccttca ttaagatact 240
gatggcacag gccatgcaa cagcaccaac cccaacaact gtaatcttat tctggggggg 300
ctgttcttcc tttagaagat tataaatcag                                     330
```

<210> 1380

<211> 269

<212> DNA

<213> Homo sapiens

<400> 1380

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ccactcctgg aaaccactg atagatgagt ttccccatt cttctggcct ccgccacatg 60
atcaggaagc tggacttgct cttatccaac cactcgagggt tccctttctt cctcagttcc 120
tctaatacaa tctggatcga ctccacagga agctttcgct gtagcttgac gttgttgaag 180
agcgggctct cctgagcttc catcacgctc atgctggact gtttgtgcag gcggcagaag 240
gacaggacca gcgagcacca ggcggccag                                     269
```

<210> 1381
 <211> 232
 <212> DNA
 <213> Homo sapiens

<400> 1381
 aaaagagagg aaaggcagtg cagggctgga ggtcctggag ggtggcggcg ggtcgtccta 60
 actagcaggc tgaaagggtgc tggaggggat gccttcactc agaggaagtt cacagccacc 120
 tgccttggaa catgtacctg ttcactcttt cgtaatgtta gtattcattt tgctatcttc 180
 ctgttgccat ttccaaacag tgtcagtatg tttttgttaa atacgaacat tt 232

<210> 1382
 <211> 348
 <212> DNA
 <213> Homo sapiens

<400> 1382
 aaacgtgcta aagggaaagg aatctgacat tctgggtaaa tcttactcaa tctaaatcaa 60
 agcttggttt tcaggaggag gaagggtgcga gcgcaggcag aggtgctgaa tactcctctt 120
 ctgattcact tccatcatcc tctttctctt ggtcactgcc ctgagtgtta agccgggtcaa 180
 acccttttctg actgtagccc ttacggcttg caaagaaatt accaagggtt aagcctccac 240
 ttcccttttcc tctaaatctt ccagtgactc ttctgaact cgtctcgagt ttgtgttcag 300
 aatctccaaa ggcccttgat tttttccacc gaataaatat ggcaatgg 348

<210> 1383
 <211> 293
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10
 <223> n = A,T,C or G

<400> 1383
 ctgcttcaan acctcagctt catgggactt gcgtctttct tctgcagctt ctaatttctt 60
 ctgaatttcc tccagggaag gatccttctt ctttggaggg gaaaggggga attctggaac 120
 agattctttt gaccgagggc tgagaatcag ctcaaaagcc tggcccgagg cacgcttctc 180
 cagttctttc acctggatat cagaagaagc catgggtgaat agaagacaag cgacaggcag 240
 tgtattctgc acaatcaact gggataagga aagtcctgct cagtccgagc cgc 293

<210> 1384
 <211> 573
 <212> DNA
 <213> Homo sapiens

<400> 1384
 ctgaagcaac ttgggattaa ttgcttgatt agcttcacga agcacagaga taaggctcgt 60
 cacttgcttt atgttattag gtgtaaagaa agtgtatgct gtgcctgttt tggtagtgcg 120
 agcagttctt ccaattcgat gaatataatc ctctgaggag ttagggtagt cataattgat 180
 gacaaatttc acatcttcca catctagccc tctggaggcc acatctgtag caatcagaat 240
 aggagctttt ccatgtttga attcatttag aaccagtcga cgctcttggt gactcttgct 300
 accatggata cccatggcag gccacccatc tctcctcatt tttctggtaa gctcatcaca 360
 tcttcttttg gtttccacaa aaacaatggg tttattctcc ttctcactca tgatctcttc 420

cattagacga ataagttttt catccttttc tacgtcatga cacacatcca caatctgaag 480
aatgttgtgg ttgcaactca gttcaagtgc accaatgttt atatgaatat agtctttcag 540
gaaatcttca gcaagctgtc ttacttcttt tgg 573

<210> 1385
<211> 150
<212> DNA
<213> Homo sapiens

<400> 1385
ccaaggccgc tagggtcctt acccctcagg atcactcccc agccctttcc tcaggaggta 60
ccgctctcca aggtgtgcta gcagtgggcc ctgcccact tcaggcagaa cagggaggcc 120
cagagattac agatcccctc ctgtaagtgg 150

<210> 1386
<211> 159
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 139
<223> n = A,T,C or G

<400> 1386
aaatgatgtt ttggttaaga gtggaccatg agaattagct gacagcatcc cttttctctc 60
tccctgcctt ggtgggaccc tccctgtgtg accttggtca agtcctcgaa cttttgtccc 120
gtattttaaga tggagctgnt ttacctactt cataagaca 159

<210> 1387
<211> 735
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 5, 20, 41
<223> n = A,T,C or G

<400> 1387
ggtgnaattc gcctttgaan ggccgccggg caggtccttt ntgtstgctg aaggcagatc 60
gcttgttcca caccagctac cactcccagg cagtgcatat ccgccctgtt tgcagaaatg 120
cacgctgtac tagcatctcc tgggagctga ggcagaccct gtcagttgta tttgatgcct 180
tcatcacggg gcagggaag aaagactggt cctctctccg gatgttctcc cgaaccctca 240
cggagccctg ccccttggt tcagagagcc gagtctatgt ggacatcacc acctacaacc 300
aggacaacga gacattagag gtgcacccac ccccgaccac tacatatcag gacgtcatcc 360
taggcactcg gaagacctat gccatctatg acttgcttga caccgccatg atcaacaact 420
ctcgaaacct caacatccag ctcaagtgga agagaccccc agagaatgag gcccccccag 480
tgccctttct gcatgccag cggtacgtga gtggctatgg gctgcagaag ggggagctga 540
gcacactgct gtacaacacc caccataacc gggccttccc ggtgctgctg ctggacaccg 600
taccctggta tctgcggctg tatgtgcaca ccctcaccat cacctccaag ggcaaggaga 660
acaaaccaag ttacatccac taccagcctg ccagagaccg gctgcaaccc cacctcctgg 720
agatgctgat tcaga 735

<210> 1388
 <211> 369
 <212> DNA
 <213> Homo sapiens

<400> 1388
 ctggggacag cctacagggg cctccagcct gtgccagacg aggaggtgat tgagctgtat 60
 ggggggtaccc agcacatccc actataccag atgagtggct tctatggcaa ggggccctcc 120
 attaagcagt tcatggacat cttctcgcta ccggagatgg ctctgctgtc ctgtgtgggtg 180
 gactactttc tgggccacag cctggagttt gaccaagcac atctctacaa ggacgtgacg 240
 gacgccatcc gagacgtgca tgtgaagggc ctcatgtacc agtggatcga gcaggacatg 300
 gagaagtaca tcctgagagg ggatgagacg tttgctgtcc tgagccgcct ggtggcccat 360
 gggaaacag 369

<210> 1389
 <211> 322
 <212> DNA
 <213> Homo sapiens

<400> 1389
 aaagatgttt ctggcatttt ctttttatatt gtaaggtggg ggtaactatg gttattggct 60
 agaaatcctg agttttcaac tgtatatatc tatagtttgt aaaaagaaca aaacaaccga 120
 gacaaaccct tgatgctcct tgctcggcgt tgaggctgtg gggaagatgc cttttgggag 180
 aggctgtagc tcagggcgctg cactgtgagg ctggacctgt tgactctgca gggggcatcc 240
 atttagcttc aggttgtctt gtttctgtat atagtgcacat agcattctgc cgccatctta 300
 gctgtggaca aagggggggtc ag 322

<210> 1390
 <211> 450
 <212> DNA
 <213> Homo sapiens

<400> 1390
 aaatattagw tgagacttta caggcacata actgttcaga tagaaacaaa cataacagac 60
 taaaatactt tcaaaattaa agccatctag aaaatggaag taactgaaac tgtagccatt 120
 acaattcttt ttctgggttt gagcaaaaat tttatctctc tggcaaaaca cttttgtctg 180
 atcatttgag agacagggtt cttgtatact gtttcttcaa cgtaaaccctc atttacaaaa 240
 atagtgcacat agcattatga ataaactatg aattggggac catggaaatg cactagaaca 300
 aattttgtaa aaatatggca gatatggaag ttaaaaatag aatggatgca aggactgtac 360
 taaaggtggt tgggtgtagtt acaatgttca ctttgcacaa ctatccctat agtctaggta 420
 gccattgggt ttctcctcag cagtgtcaga 450

<210> 1391
 <211> 304
 <212> DNA
 <213> Homo sapiens

<400> 1391
 aaaaaatcat aaatgggggtt tcataatcca aagttgaaac atttattctt catagcttca 60
 gaatttaaca accaattgta gaccatgctt tccaaatcca gtcttctttg ctatttttca 120
 aaacttctga gatctagtat taaactgctc cattctaaat gtatagtttt agataagtat 180
 tgtacacttg ttgataaggg ttttctgaaa gcagtctatc aaatataaag aatggtttct 240
 atctaagaat cagcagtgag ggaagaaata ttaaacacct atcaagaaat caattattca 300
 tttt 304

<210> 1392
 <211> 140
 <212> DNA
 <213> Homo sapiens

<400> 1392
 ctggaagaag aactgagaca gcagaaagaa gcagcttggt tcaaggctcg tccaaacacc 60
 gtcattcttc aggagccctt tgttcccaag aaagagaaga aatcagttgc tgagggcctt 120
 tctggttctc tagttcagga 140

<210> 1393
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 1393
 aaaactttgt ttttcttaaa agcttacagt gtttggctaa ttctcctccc cttttttacaa 60
 gacggggggcc ggaggggtgga cactggtggc aggttaaggg atactgtcac tttaagaagc 120
 ctgcagattg aagtgtaaac atggagaaat taggggctga tttttt 166

<210> 1394
 <211> 543
 <212> DNA
 <213> Homo sapiens

<400> 1394
 gcagaggctg tgggtacaaca tggtccttgg tgaagacctg cacccttgga acctcccacc 60
 atcatcacaa ctgtagtctc atttgcagtg gagaaaagaa cccgacgtcc cacagccaga 120
 tatacaccca gctccatgcc agcccttcat gtttaccttt tgctttgtta attacatgtc 180
 agactcctag agggcctcca gactaatagg aagcatttct gtaaccaacc tgccaccacc 240
 tgattcagaa atggaaatca cattccacaa tctatggctt ctaccagcta gccagggaaa 300
 tacttgaaat cagcattcca attagtgttg agtctcttga ttgtgtcatt taccaattaa 360
 ataactgaga cctaagtctg ggaacagagc cacgaatctg cctttgagat gctggcagat 420
 ctcaaggcca tcaattattg ggggagggag ggacaaacac tcccaatcat ccaccagtca 480
 gactgaatgt gtagctggcg aggaattact tccacttctg gccagacaca agccctgctt 540
 tgg 543

<210> 1395
 <211> 364
 <212> DNA
 <213> Homo sapiens

<400> 1395
 cctatcatca gtgggggtgt attcaccatc atccagggtg ccatcttcat acaagggtact 60
 agctatgacc aaccgaaact tgtcacccaa gtctacaggg taaatttgaa tgtttacatc 120
 taagattaga tccatcttga aagattcact ctacaaatgc agtcgagaca ctcggtcaaa 180
 cttcttgccc tccgggtcaa tatccttcac atcgaaaata tcctcaaaca ggatgcccgc 240
 catcgcgagg gggccacgag agcagcagaa ggggtgagag cgcgaccaca gttgggagta 300
 cgtgcacccc ctagcgtgga caagaccgga gagaacccaa agcacctcct gaaagcgcg 360
 cggc 364

<210> 1396
 <211> 422

<212> DNA
<213> Homo sapiens

<400> 1396

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gctgctgctg ctattgtgtg gatgccgcgc gtgtcttctc ttctttccag agatggctaa 60
caggggcccc agctatggct taagccgaga ggtgcaggag aagatcgagc agaagtatga 120
tgcggacctg gagaacaagc tgggtggactg gatcatcctg cagtgcgccg aggacataga 180
gcacccgccc ccgggcaggg cccattttca gaaatggtta atggacggga cggtcctgtg 240
caagctgata aatagtttat acccaccagg acaagagccc ataccaaga tctcagagtc 300
aaagatggct ttttaagcaga tggagcaaat ctcccagttc ctaaaagctg cggagacctt 360
tgggtgtcaga accaccgaca tctttcagac ggtggatcta tgggaaggga aggacatggc 420
ag 422
```

<210> 1397
<211> 653
<212> DNA
<213> Homo sapiens

<400> 1397

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ctgacctgct atcccacccc aaatttccagc ctgaggtata tttcagtga ggcaggtagc 60
tgtgtcttctc agagcagaga agcagtttta agagcaaaaa ggtagaggaa atctagaaaa 120
gaaccgtctt gatacagatt tatcccatgg tgtgaaggga gggcaaagaa ccagtgaggc 180
cttcgcttat ccagcaattt ctgtcactgt ggtgaccaac ttctgcccgt tccatagggt 240
cttgaactgc tcaggaactg ggaattcatt aaagtcaccg ccttctgtag gaatgaggac 300
attcatctcg gaagatttgg cactgactat ttcacaatcc aggggaattct tgctcaggta 360
agcatggcag ccattctgtt tgttgatgga tatggttggc actttacca ttacctgaac 420
tttgacatcc ttactgttga ttatctccac aatgccacc acgtcatcga ataccaggcc 480
aagtttctta cagttatcta ctgtaatgga gttaattttg cccttgattt gcaatgtcgt 540
gttgacacac ttgtatatgt aagccacctg tttcagctct gtgtcctcaa tcaccagggt 600
ggaaacattt tcttgatttt ccctctccct tcttgccctc agttcaagta cag 653
```

<210> 1398
<211> 261
<212> DNA
<213> Homo sapiens

<400> 1398

```
aaaattataa ctactcattc tttcttttagc cttagataat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccattttacag ttgtagggtt gtaatgtata attatgtaat gcasaaacta 180
gctttgactt gtgtracgat gcactgtcaa aggaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g 261
```

<210> 1399
<211> 195
<212> DNA
<213> Homo sapiens

<400> 1399

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ctgattttat ttccttctca aaaaaagtta tttacagaag gtatatatca acaatctgac 60
aggcagtga cttgacatga ttagctggca tgattttttc ttttttttcc cccaaacatt 120
gtttttgtgg ccttgaattt taagacaaat attctacacg gcatattgca caggatggat 180
ggcaaaaaaa agttt 195
```


<210> 1400
 <211> 120
 <212> DNA
 <213> Homo sapiens

<400> 1400
 ctgcctccaa ccctttgggt ctccaccacc caagtttctt gtaggggtccg ccgggtccag 60
 gatcacaggc ctgggttttcg tgagctgcct tctcaggtac ttttcaataa tgggggttttt 120

<210> 1401
 <211> 284
 <212> DNA
 <213> Homo sapiens

<400> 1401
 ctgtagccaa aaagatgctg gggcagattg tggacaagta gaagcacctc cttccccctct 60
 gcgacattga acggcgtgga ttcaatagtg agcttggcag tgggtgggcgg gttccagaag 120
 gttagaagtg aggctgtgag caggagcctc tgccagggga catgcaatct gcaggaggagg 180
 gctgaggggg gtcccatggt ctctgctgtc ttctctgtcc acctctttgt agaggagctt 240
 gagctccagg aatgctctgg tcagggctgc tgtgactgtt ggcc 284

<210> 1402
 <211> 198
 <212> DNA
 <213> Homo sapiens

<400> 1402
 ccaggtttct gctggtacca ggctaagtag ctggtgctgg cgggaacact gtgactggcc 60
 ctgcaggaga ggggtggctct tccccccgga gacagagaca gcgtgtctgg agactgtgtc 120
 acttcaagct ctgcgatgcc atctgggagc cagagtagca ggaggaagag aagctgcgct 180
 ggggtttcca tggttccc 198

<210> 1403
 <211> 441
 <212> DNA
 <213> Homo sapiens

<400> 1403
 aaactcaaaa ttgacaaatt aactagcttg ctttttgtca tttggaagac taccattatt 60
 caaatattatt atgtaataca ctcatccaga taatgaaaca tctgcgaaaa aaagtgtggg 120
 aatcacctca tctgtgcata aaatggctat tatacatgaa tgcagacgtt tgaagttaga 180
 aaggaatata actcaaatag caaaagggtcc taattacaga gtttacaaat aagcagtttt 240
 attttcaaaa gtacatagta agtccagact gggctattgc caaagaacta atcttttagtc 300
 tactttcaaca tgttacatgg tattcctgac tctacagact atcagcatct gtggagggtta 360
 gctcctaaag gtcccaaaga acaggaaaca tgcaggaata aaggactcct catgaagagc 420
 aggtggggagc gagtgggcag g 441

<210> 1404
 <211> 243
 <212> DNA
 <213> Homo sapiens

<400> 1404

```

tgaagggggtt cttggaagac ctggcacctc cagagcgcag cagcctaatt caggattggg 60
aaacatctgg gcttggtttac ctggactata ttagagtcac tgaaatgctc cgccatatac 120
agcaggtgga ttgctcaggt aatgacctgg agcagttaca catcaaagtg acttcactgt 180
gcagtcggat agagcagatt cagtgttaca gtgctaaaga tcgcctggct cagtcagaca 240
tgg                                                    243

```

<210> 1405

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1405

```

aaaccactgg atctatctaa atgccgattt gagttcgcga cactatgtac tgcgtttttc 60
attcttgtat ttgactatct aatcctttct acttgctcgt aaatataatt gtttttagtct 120
tatggcatga tgatagcata tgtgttcagg tttatagctg ttgtgttt 168

```

<210> 1406

<211> 486

<212> DNA

<213> Homo sapiens

<400> 1406

```

ctggacatac agaaattggt gaatttttgt tgcaacttgg agtgccagtg aatgataaag 60
acgatgcagg ttggtctcct cttcatattg cggtctctgc tggccgggat gagattgtaa 120
aagcccttct gggaaaaggt gctcaagtga atgctgtcaa tcaaaatggc tgtactccct 180
tacattatgc agcttcgaaa aacaggcatg agatcgtgt catgttactg gaaggcgggg 240
ctaattcaga tgctaaggac cattatgagg ctacagcaat gcaccgggca gcagccaagg 300
gtaacttgaa gatgattcat atccttctgt actacaaagc atccacaaac atccaagaca 360
ctgagggtaa cactcctcta cacttagcct gtgatgagga gagagtggaa gaagcaaaac 420
tgctggtgtc ccaaggagca agtatttaca ttgagaataa agaagaaaag acaccctgtc 480
aagtgg                                                    486

```

<210> 1407

<211> 560

<212> DNA

<213> Homo sapiens

<400> 1407

```

aaatatatgc ttttctagaa tttgatgttt gaccatttat gacttaatta ccagagagcc 60
agtaaattag gacagtgttt caacaagcct aggctatctc gtaagttgaa aaatatccca 120
ctatagttgc ttcattgagta tgaagtaaga tggcctctga ttactactgg ttcaattttac 180
aaattttcaa ctttatgata gggtttatcag ggtactaaat gcattttcac ttgatagttt 240
caacttatga taggtttacc aggatgtagt cccactgttg aggagcatct atttaggagt 300
taattacttt agtaataagt ggaaagtaag ataccttgag taatgtttgc ctataaaatt 360
gtcagcgtat ttttacacta ttggctcaag aatgttataa tgctaaggga cataagttgg 420
caaccacttg gtttttggaa ggactttcgg tattgtatta gaagtctgcc ctagctgtta 480
aatttctggg tatttatcct aaggaattaa tttaaagagt aattgttcct ttcttcagt 540
ggccattgtt ttagatattt 560

```

<210> 1408

<211> 360

<212> DNA

<213> Homo sapiens

<400> 1408

```

ctgcctagtt gtagttgaca gacaacttta taagctctag tcaaccctat tgactaagct 60
tctgaaccac tagcatagtt ctaggggtcag gcggatgcct actgtgggca ggaaagtgat 120
gcatgcatgt gtgggagcag tgtcttaatg tctgaaatag tagccatgag ctacatgtgg 180
ctatggagca cttgaaatgt gggagtccaa attatcatgt gctgtgagtg taaaataata 240
tgtttctaag accgtgtgtg aaagaatata aaatatctca ttaaaaaatg tttatattga 300
gtacatgttg aaataatttt atatttgtga cacattgtgt taaataaaat attaaaattt 360

```

<210> 1409

<211> 208

<212> DNA

<213> Homo sapiens

<400> 1409

```

ccagtccaac ctgctcctca ttattgtata aatgagcaga atcaatatgg cggaagccag 60
cttcaattgc caatttgggtg gcctctaaag ctttactttt aggaacctct gcaggcgcat 120
aggtgccaaa tcccaggaca ggcatgaagt gaccatcatt cagcttcaca cactgatatt 180
tcgaatccat ttctgtcact agcctggc

```

208

<210> 1410

<211> 404

<212> DNA

<213> Homo sapiens

<400> 1410

```

aaaaaaagga aaaagtttta ttacgaaact agtttgtata aaacagggtt atacatattt 60
ttgtaagttt gtaataaaaac agtaagaaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgar cagtatttta taacatcatt aatacatata caacatttct ataaagtaag 240
acacattggt gctgaagtac aactggtggc ctcttgatct cacctatgag gagagttctt 300
tacamawcca catagggaaa attgcagttg taaggtgarc tacacatcta aaatatgcag 360
aggtaatagc attacatgtt aaagtatcaa gatatacaca tttt

```

404

<210> 1411

<211> 623

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 428, 469

<223> n = A,T,C or G

<400> 1411

```

ccacttggtg agatatgggg agcctacact ccggagggst gtacctttag cactggccct 60
catctctgtt tcaaattccac gactcaacat cctggatacc ctaagcaaat tctctcatga 120
tgctgatcca gaagtttcct ataactccat ttttgccatg ggcattggtg gcagtgggtac 180
caataatgcc cgtctgggtg caatgctgcg ccagtttagct caatatcatg ccaaggaccc 240
aaacaacctc ttcattgggtgc gcttggcaca gggcctgaca catttaggga agggcaccct 300
taccctctgc ccctaccaca gcgaccggca gcttatgagc caggtggccg tggctggact 360
gctcaactgt cttgtctctt tcttgatgtg tcgaaacatt attctaggca aatcacacta 420
tgtattgnat gggctgggtg ctgccatgca gccccgaatg ctggttacng tttgatgagg 480
agctgcggcc attgccagtg tctgtccgtg tgggcccagg agtggatgtg gtgggcccagg 540

```

ctggcaagcc cgaaaactat cacaggggttc cagacgcata caaccccagt gttgggtgggc 600
ccacgggggaa cgggcagaat tgg 623

<210> 1412
<211> 171
<212> DNA
<213> Homo sapiens

<400> 1412
gcgggcgctgg ggggtgctgga gtccgacctg ccaagtgccg tgacacttct gaaaaatctc 60
caggagcaag tgatggctgt aactgcacaa gtgaaatcac tgacacaaaa agttcaagct 120
gggtgcctatc ctacagaaaa ggggtctcagc ttcttggaag tgaaagacca g 171

<210> 1413
<211> 189
<212> DNA
<213> Homo sapiens

<400> 1413
aaaagtcata aggggttttat tttgtatcat caaaatattc tataagggtcc caaataactct 60
ttttcaaccc atgaacagta agaatttgtg aattctgata atgaaaaaag ttttcctcca 120
ggtatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180
gaacaccag 189

<210> 1414
<211> 564
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 511
<223> n = A,T,C or G

<400> 1414
cctccccagc gcccaaaggt ctattacaag tacctataga cttttcacat ataagttcta 60
gtgggtacaa gctttttttt tttttttttt tttttttttt tctattgggk atttcattca 120
ttttgggggg ggaacaaatt ctacaaactg ctttaatat gkcctttttt tctaataattc 180
acattaactt tttatgtaaa acataccaat gctttttaata aagccttacat aggaataaac 240
tattatagac ctgcatagat ataagtaccc atgtattaat ctacattaaa ataatggatt 300
ttattctgcg aaractccaa gttgctcctg gkggctaagk gaagcactta gggaaatgtg 360
ttcagtcttt gaggtcatag gaacattara ttatatcaaa ggaaacctgg agccatcagc 420
taagtggccc ttctgtcctg tagatacata aaaactaatg ggctccgcta tgcggtcac 480
tttctgctat tagatactat gaggcactaa naaaaaacta ctgcctgcat catatctttc 540
ttcgggtttga gataaagaga atgg 564

<210> 1415
<211> 231
<212> DNA
<213> Homo sapiens

<400> 1415
ctgcgcttgg ataacaagta attcaacgca cgcacttaac agaaatgtta aactataaca 60
agcaccattt gaggattaac aggaacattt ttttgaagat ttcaaacgaa ctcgactttc 120

```

agtataattg tacctaaagt atttataaac agtcatcg agcctctatt tgtcatagac 180
ttttgagttg attggtggga ccacataata ggaccatttt tttttgtctt t 231

```

```

<210> 1416
<211> 540
<212> DNA
<213> Homo sapiens

```

```

<400> 1416
cttgatttag gatctgtggt gcagggcaat gtttcaaagt ttagtcacag cttaaaaaca 60
ttcagtgtga ctttaatat ataaaatgat ttcccatgcc ataattyttc tgtctattaa 120
atgggacaag tgtaaagcat gcaaaagtta gagatctgtt atataacatt tgttttgtga 180
tttgaactcc taggaaaaat atgatttcat aaatgtaaaa tgcacagaaa tgcattgcaat 240
acttataaga cttaaaaatt gtgtttacag atgggtttatt tgtgcatatt tttactactg 300
cttttcctaa atgcatactg tatataattc tgtgtatttg ataaatattt ctccctacat 360
tatattttta gaatatattca gaaatataca tttatgtctt tatattgtaa taaatatgta 420
catatctagg tatatgcttt ctctctgctg tgaaattatt tttagaatta taaattcaca 480
tgtcttgtca gatttcatct gtataccttc aaattctctg aaagtataaaa taaaagtttt 540

```

```

<210> 1417
<211> 350
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G

```

```

<400> 1417
ttnatcatct aactgtggga tctatttcat ttctggaaat aacacaactt agttctaggg 60
ctttcatgca catgaaatat aaaacagctt agttgttctg aaaacatgac aatggttaat 120
tttattcaag tccaacact gagttcagag cacttctcca taggccccat taatctctcc 180
aggtttctgg gagtatcatt aaatccctcg gcattcctta gaagcagggtg cttagcaaac 240
atccagtttc caaatgagag tcagaggggc ttgatcctga aagtgtagta ttttcctgcc 300
ttgtcctact ggtatagctt cttggaccta aaatctctct cctgctgagg 350

```

```

<210> 1418
<211> 425
<212> DNA
<213> Homo sapiens

```

```

<400> 1418
tgctaggcag ccttattttc ataaccawt tagggaaagg aaatttagga ttttcaaggc 60
tacattaatt tttcctccat caaatcttga tttgttcttg ataaaaatga gttcttttgg 120
ggaaattctt tcttttagaca ccaacttggt ttttctcatc ttccacagaa taattgaacc 180
cctgacctct agatgttcaa aattccgctt caagcctctg tcagataaaa ttcaacagca 240
gcgattacta gacattgcca agaaggaaaa tgtcaaaatt agtgatgagg gaatagctta 300
tcttgttaaa gtgtcagaag gagacttaag aaaagccatt acatttcttc aaagcgctac 360
tcgattaaca ggtggaaagg agatcacaga gaaagtgatt acagacattg ccggggtaat 420
accag 425

```

```

<210> 1419

```

<211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1419
 aaactcttgc tattgaattg agatgattaa aatgggtgact taatccgtag ttatttttgca 60
 cccactgaaa ggaaagtgct ttccagaata atatgaagta tctaaaagtg tcaccttttc 120
 ttgcctgata aacaatttgg gcttcctggt tgtacaaggg gccatttggc atacctttca 180
 cagcttttat caggccaagt taaaggctga ctacattttt tcatcatgag gaaagcagtt 240
 gaaatgaggc atgagttact gtgcattggg attttagaac aattttcttg tgacagctct 300
 ttttgtgaag ttaggttctt aaaagtgcc atgatggta cttaaaatgt gcagtaatag 360
 cactgccagg atcaagcatg aaaggctttt 390

<210> 1420
 <211> 480
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 322
 <223> n = A,T,C or G

<400> 1420
 ttgctgaaca atgacatcgt tttctccagg ggttgaaatc catgtccatg gctgacaacc 60
 caacaaggct gggacccaaa ttctacaga gatgaggcag agtggagaga aacaactctg 120
 gctgagccag agtctccagc cactacttct tttcctggg ctttagctct tcggctgcat 180
 tacgcaggaa aatgtaattt tttttctggg gattataaaa ttcattgtcc tttgaccagt 240
 cgtagctgga agcgtatgca aatatgtttc cattgygatt gaaacagcaa gctgasatgg 300
 gctgayctaa ctgttccgaa gnttttagtt ttgktctggc atctttgycc cagaagctga 360
 atctaccatc agatcccaca gttgcaaggg tgccatgaac aggatggaac gccgattcca 420
 tttacccgca taaatgycct gaggagctga agtggttggt ccattagatc gatgacattt 480

<210> 1421
 <211> 453
 <212> DNA
 <213> Homo sapiens

<400> 1421
 aaactgattg aggtcacagt attttattat ttgggggtcct caccacagga aacactgcga 60
 tacaggggca aaagagatgg cagtgccaat taaattaata caacaaaatc aatgcagcac 120
 caaccaagac tgccagggtct ggtgtcatgg gtatgccag agcccaggag ttcagaaggg 180
 ccctaagcct gatttaatgc tctgctgttg atgtcttgaa attcttaaca atttttgaac 240
 aaggggcctg cgttttcact tcgcactggg ccttgcaaat tacatagcga gtgctcataa 300
 aagaactcag aaacgtggta cctctcttcc tgggtggata aaataaagaa atctggatcc 360
 aaagttgaaa gttgctggcg atatcattca agtaggactc taaatagtgg attaagatga 420
 ggggtgggcct ggggtgaagat tctttccagc ttt 453

<210> 1422
 <211> 542
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 151, 166, 220, 231, 308, 349, 364, 511, 528, 537
 <223> n = A,T,C or G

<400> 1422
 ttttcttgac cactatacgg cacaacctag gggstgtawa aaacctascr caatgcagaa 60
 ggggtgaagct tcatgacaat tgggtctcggc aataatttgg gggatgtaac atcaacgaat 120
 cagacaacaa aagcaaggga atacacatgg nactaaatca gtgtgnggaa aaatatccca 180
 aacaggcaaa gcacaacatg gamtagatat atgcacattn atggaccctg naggcakkac 240
 tcacaaacat actacctggg aagcamctgg acctttaagg gatgaggtag attcaacaaa 300
 cagggcancg tatmttcac tgggatagca ttccagcctt aaaaataang aaatcttgaa 360
 aagnactaca ataaggacaa atctcgaaca cattctgtta agtaaaacaa gacaagccaa 420
 aaagggaaaa ctgtataatt acacctatgt aaaatattta gtcaaactca aagaaaccaa 480
 gtgttgtagt ctcagcaggg caccaagatg naaacagtct ctcatagnct gagatangca 540
 tc 542

<210> 1423
 <211> 252
 <212> DNA
 <213> Homo sapiens

<400> 1423
 ttaatgccaa atggcaaagt tgcattccgtg gaaatgggta aatatcatca ctgtcgggat 60
 gaacccttgc acgccctcta tgacaatgtg gagaaactct ttccagggtt tgagatagaa 120
 actgtgaaga acaacctcag gatccttttt aataatgctg taaagaaacg tttgatgaca 180
 gacagaagga ttggctgcct tttatcaggg ggcttggtact ccagcttggt tgctgccact 240
 ctgttgaagc ag 252

<210> 1424
 <211> 273
 <212> DNA
 <213> Homo sapiens

<400> 1424
 tttccactct gcacattgta gaggggaacac tctgtaggcc catgggtccc ttactagaga 60
 gggtgagtga atttgccttc agttaacatg ggaccttctg tttagcttcc tcttgcttcc 120
 caaagatttt aagcattttg taaatgtata aactcacctc tggtaacagt ggcccagacg 180
 ctgctttgtg ctaaaagcat gggaaatgta aaggcagtct ttctctggga aatggatgct 240
 attctattct gctgccccta cctgttccctg agg 273

<210> 1425
 <211> 618
 <212> DNA
 <213> Homo sapiens

<400> 1425
 aaaaaccttg tatagcaaaa taacttaaaa ccctttgtga tatcatctta ccagttttatt 60
 tggtaaaaac aaacagttat ttgggtatttg tcagaattct tcagtgcctg ctattacagc 120
 tattttccaa ttactaattt gattatactc actcaaggca gtgcaagatc ttgaagtact 180
 ttttagcagt taagtaatat tgaattgtat tgaatagttt acatagttta ttctagtctt 240
 tgaaaattac tgaacatgga caatgtgcat gtcattgaca tctgccttag aacttctggg 300
 acaatcctga ttcgagagat tctatcccat tatttacata taccaaaaat actttgttaa 360
 tttaaatgtgt tggcttccca actcctgaac acgacacaat ttattatta gattttgtat 420

```

ggtgatttta ggctatgaaa acatgatcat tatatgtata tagatacatt tttatttggt 480
acaaatgttt gagcagctca ctagcccacc cctcctctat tttgggtaag agaatttact 540
acctttttta actatgtagt tgagagcaac atgtattttg ttatttttag aatggtcagt 600
atattgctat aaaatttt 618

```

```

<210> 1426
<211> 565
<212> DNA
<213> Homo sapiens

```

```

<400> 1426
gtggtagaaa gagatgacgg aagcacatta atggaaatag atggcgataa aggcaaacaa 60
ggcgggtccca cctactacat agatactaata gctctgcgtg ttccgaggga gaatatggag 120
gccatttcac ctctaaaaaa tgggatgggt gaagactggg atagtttcca agctattttg 180
gatcatacct acaaaatgca tgtcaaatca gaagccagtc tccatcctgt tctcatgtca 240
gaggcaccgt ggaatactag agcaaagaga gagaaactga cagagttaat gtttgaacac 300
tacaacatcc ctgccttctt cctttgcaaa actgcagttt tgacagcatt tgctaattgg 360
cgttctactg ggctgatttt ggacagtggg gccactcata ccactgcaat tccagtccac 420
gatggctatg tccttcaaca aggcattgtg aaatcccctc ttgctggaga ctttattact 480
atgcagtgca gagaactctt ccaagaaatg aatattgaat tggttcctcc atatatgatt 540
gcatcaaaaag aagctgttcg tgaag 565

```

```

<210> 1427
<211> 144
<212> DNA
<213> Homo sapiens

```

```

<400> 1427
ccactagtta tttttatgta atcaattacg gggtcattag ttcatatccc atatatggag 60
ttccgcgtta cataacttac ggtaaattggc cgccaccgcg gtggagctcc agcttttggt 120
cccttttagtg agggttaatt gcgc 144

```

```

<210> 1428
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<400> 1428
ccactagtta ttattatgta atcaattacg gggtcattag ttcatagccc atatatggag 60
ttccgcgtta cataacttac ggtaaattggc ccgcctggct gaccgcccac cgacccccgc 120
ccattgacgt caataatgac gtatgttccc atagtaacgc cgccaccgcg gtggagctcc 180
agcttttggt cccttttagtg agggttaatt gcgc 214

```

```

<210> 1429
<211> 253
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 12, 16
<223> n = A,T,C or G

```

```

<400> 1429

```



```

ccactagtcc antttngtgg aattctgaag ccttaattgc ttatatccat gtttctagtg 60
aatgagagg gtataacaaa aaagagaaca ggaggaaagc ttcgctgtgc ctgaggaaat 120
aatctagtca aggcagcaag tctggatagt gctatagaga tgagatacct gagcagttcc 180
agaggaagag gtggagatca gaggccagtt ttcagtgaac actgtaaaga aaagccagat 240
gatgtgtcct gga                                     253

```

<210> 1430

<211> 232

<212> DNA

<213> Homo sapiens

<400> 1430

```

aaatttttact agtgttactt aatgtatatatt ctaaaaagag aatgcagtaa ctaatgccct 60
aatggtttga tctctgtttg tcattacttt ttcaaaatta tttttttctg taaagtataa 120
tatataaaac ttcttgctta aattgaattt ctatattagt ggttaattgc agtttattaa 180
agggatcatt atcagtaatt tcatagcaac tgttctagtg ttttgtgttt tt          232

```

<210> 1431

<211> 734

<212> DNA

<213> Homo sapiens

<400> 1431

```

cattatacaa cactatatgt ccaggtcaaa gagggcaggg acgtaaatgt acactaaaat 60
gcmaatgtat cccaaagaga taaaacaaat tccatttaca gcatgaaggt ttacaaatgt 120
acacctgtac aaccaaggaa agcatcacta ctaaattagc aaggctttta taataaacat 180
tgaaasaaga tttcctttca aagtgtaaac ttacatctat tactacacac acaatgcata 240
tatttataga aagcaaaaag agctatctga atatgtaatc atgcttaaat gctgagctat 300
caaattcact tttcagtggc cccttttcat ctctatctgg ttctacttt ctgcctctat 360
gaaaaagcaa aataaagctc aacacttcct caacatgtct gtaattctat aagcaaaaca 420
aaatacaaat ttccactctt tctcattgca aaccaaaactg aaaagttaat aagtgactta 480
acttttcatt tagtgcactt aattggaagt gtcaccatga ttttgtattt aactcttaca 540
acaattacat atgtaagtat atacaatatt tctgtacatt gccagagaca ttttagggca 600
gtaattgtat taaaaccaca tctactgtaa ataatgttag gttcttttca tctcaaacca 660
ctttattctt gcctacttac tcgttatttg catgatagtt tgtgaattat caaaatacaa 720
cttaactctt taaa                                     734

```

<210> 1432

<211> 542

<212> DNA

<213> Homo sapiens

<400> 1432

```

tttaagaaag agcctttgag aaacatgcat actttttctct tttctcctat attcaatact 60
catatagcct aaaagatgga aactgggttca agaattttaa tgacttggtc cctaaaaagt 120
taatctcctc acctttgtga aatatatcaa gtgcttttcta taaataaggg caggaaatgc 180
taacttcata agcatagtcc tagtcattaa aataatttga tcatcttcta aaatttaagt 240
atgatagtaa cacagtaata tggaaaatct caatatactt aacacttcct aaacagcaca 300
atgaaatgtt gttcaaggtc tgaattaatt tgctacagga cctaagcaag tctgtttgct 360
tatcttttgg ctttaaaatt ctttaagtct aaaatgggtga taattttaga ataaactgac 420
aatgtgggga acaaacttaa attcacaac actaccata tgctcaaaaa ctctctggga 480
taattagttt cttcattgta actattgatg tactattatt tcatctttcc attagctcta 540
ct                                     542

```

<210> 1433
 <211> 175
 <212> DNA
 <213> Homo sapiens

<400> 1433
 tttaaattgat tcaaaaaaac ttgacacctg tcatgtaggc cacaaaatag tagcgaacta 60
 tactaagtgg tatagcccac tgtggagtgt ggtctttttac tcttccaaat agcccaagtt 120
 ggcaaaggtt acttaaaaaac ctgcccccca aaaagctaac ttttggtaga ttttt 175

<210> 1434
 <211> 90
 <212> DNA
 <213> Homo sapiens

<400> 1434
 ttaatcacta ttgatggaag cttatatcc ttatgaatat atacatgtat gcatatatac 60
 atctctgtat gaatcactca aagcaatttt 90

<210> 1435
 <211> 153
 <212> DNA
 <213> Homo sapiens

<400> 1435
 tttaaccttg tgctttgaag gttctacat ttakaaagta aaaagccaac ccacagaatg 60
 gaagaaaaga ggacagactc taacaagcgt tcacaaagat ggagagaaat tgtaaccctc 120
 atatattgct ggtagaattg tagaaagatg cag 153

<210> 1436
 <211> 483
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 36
 <223> n = A,T,C or G

<400> 1436
 ttttttagttt aaagaagagt tttgccactt aracanggga gctwtgtctg gaaaatacac 60
 tgagttgaaa cacttcaccc ttggaaggat tatataagat gaacagytgt gataaatgtg 120
 tagattagag ggatgtgaat gggcagttag tccagtgcc tcatTTaaga ggccaagatc 180
 ctgattcaga ggaggcatcc tttgccaga gctgcttagc taatctgacc aaatggtggg 240
 aaaaatgtct cacctaacc actattcctt aattatggat tttgtgaaaa acaatagaac 300
 atgttaata gtaatttata ttagttcgat gtattacaat tttttagctt taaattacag 360
 ytttcttata atgttgaaat gtttttagaat cctttgaatc taagtatttg tttcctaaat 420
 gaaacatttg tacaacattt gatgttttta cttatgaaat attctcctcc cccaagaaaa 480
 ttt 483

<210> 1437
 <211> 171
 <212> DNA
 <213> Homo sapiens

<400> 1437

```

ttttgccacc tcaagaagcc attttcttgt ctgtttcctt ctttacctac ccctacaacc 60
tatgaacaaa taccataact taaaaattta ggtagtctac aactcctaca aattttaagt 120
tcagagacta cccaaagaac tgtggaagat gcagcaatat aaaagttttt t 171

```

<210> 1438

<211> 408

<212> DNA

<213> Homo sapiens

<400> 1438

```

tctgagtgga ggtaggctaa caacacattt tgactttstc ctcaaaggat agctttgaaa 60
aacaagtgta accaattggt acaccaaatt aaaatggcaa tattaaatcg gtaacaaaac 120
gatccacatt ttatacaata ttgtatttcc aaacatacat aggtcatgaa aatcagagaa 180
cctaatatag caccgttgaa accattcatt atccttcatg tgtgtatgca attcagaatt 240
tcggcagaag acaacaaatg gaaaatgcct ttcgtttcta taaatcattt tggatttcaa 300
ttaaatcttt gccttagtaa agggatttct tatctcaaga tcaattagcc gtttttagct 360
ccaccgtttt ggaagtaaaa atgatgagct acatctactt tttaattt 408

```

<210> 1439

<211> 168

<212> DNA

<213> Homo sapiens

<400> 1439

```

ttacacaaca gctataaacc tgaacacata tgctatcatc atgccataag actaaaacaa 60
ttatatattag cgacaagtag aaaggattaa atagtcaaat acaagaatga aaaacgcagt 120
acatagtgtc gcgaactcaa atcggcattt agatagatcc agtgggttt 168

```

<210> 1440

<211> 307

<212> DNA

<213> Homo sapiens

<400> 1440

```

tttcacatac gaagaaatca actgtgatta tgaagtgaca gccagctaaa tatgtcttgt 60
attttctctc ttcttttttt tgcctaactc atcctttact tccattcctg cttccatggg 120
aatgcagggt caaataaatt actaggatac aagattactt caagcctctt ttctgtggaa 180
ctcataatat gataagcatt tggtacaaga ttgcctgtag ttgttttaggg gacaaattat 240
attagggaaa gaaagtcttt ctttagttgg tttaaatttc tattataatt gggtactaaa 300
tttatttt 307

```

<210> 1441

<211> 684

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 600

<223> n = A,T,C or G

<400> 1441

```

ttaagttctg gagtggtcac ttctgagcct gaattccctc ccctgcaaaa tgggggaata 60
ccctcctcag agggtccttg cgagggtgag gggagattca gcatggcagg tgtgctgggc 120
acggcagggc ctgggaaggg cagatccttt ccccatccct gccacaaaca acccaaacct 180
ttaaaggaga gcaatggcct tgtgtcaaaa acaaaaacaa aaaaaaccc tgtcctagga 240
gactggggcc ctaatttcta atagcaagcc tttatgagtc cctaacactc tactgggctg 300
agtatctcac acgccagagg ataacctgcc ttctgctcac caccaccccg tagtagttgt 360
cattgtgtcc atttcacaga tgaggcaaag gctcagaaga gtcattgtgt aaaccagctt 420
ctagagccca tgcaggagct gcagggtggga gaatcacctc taggtgctct tcccatagaa 480
tcctcacctc ctgagtgtca ctactcagc ttccaatggg tgtgtgacct ttgaccagct 540
ttcttctctc ctgggcctca gtttcccacc tggacaaagt aagaggctct ttggcttcan 600
gtaagttctt cctaaacttc tttttccttt tcatttgagc atcctcttca tttttgccac 660
ctctctgtca ttacaggct tttt 684

```

```

<210> 1442
<211> 166
<212> DNA
<213> Homo sapiens

```

```

<400> 1442
aaaaaatcag cccctaattt ctccatgttt acacttcaat ctgcaggctt cttaaagtga 60
cagtatccct taacctgcc aacagtgtcca ccctccggcc cccgtcttgt aaaaagggga 120
ggagaattag ccaaacactg taagctttta agaagaacaa agtttt 166

```

```

<210> 1443
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 1443
tttgcctgt caaaagaaga gctaaagaca gttatataaa aattaagggtg ggctttcaga 60
ctggctaaca caacaacatt ccatgagtag atggtaattt atttttgttt atccatttcg 120
ttgggagcaa ggacaaaaat gtaaatctac accttgctta tcaaaattgc cgaaaaaaga 180
atgctctgcc tttt 194

```

```

<210> 1444
<211> 96
<212> DNA
<213> Homo sapiens

```

```

<400> 1444
gagagtcgag agtgggagaa gageggagcg tgtgagcagt actgcggcct cctctcctct 60
cctaacctcg ctctcgcggc ctacctttac ccgccc 96

```

```

<210> 1445
<211> 365
<212> DNA
<213> Homo sapiens

```

```

<400> 1445
gggatgagct gaccaagaac caggtcagcc tgacctgcct ggtcaaaggc ttctatccca 60
gcgacatcgc cgtggagtg gaggacaaat ggcagccgga gaacaactac aagaccacgc 120
ctcccgtgct ggactccgac ggctccttct tcctctacag caagctcacc gtggacagga 180
gcagggtggc gcagggggaa gtcttctcat gctccgtgat gcatgagggt ctgcacaacc 240
actacacgca gaagagcctc tccctgtctc cgggtaaatg agtgcgacgg ccggcaagcc 300

```

cccgctcccc gggctctcgc ggtcgcacga ggatgcttgg cacgtacccc gtgtacatac 360
ttccc 365

<210> 1446
<211> 386
<212> DNA
<213> Homo sapiens

<400> 1446
tctggaaagt tcttgctcgg gtcccttcac ctccccgccc tttcttarag tgcagttctt 60
agccctctag aaacgagttg gtgtctttcg tctcagtagc cccacaccca ataagctgta 120
gacattgggt tacagtgaac ctatgctatt ctcagccctt tgaaactctg cttctcctcc 180
agggccccgat tcccaaaccc catggcttcc ctcacactgt cttttctacc attttcatta 240
tagaatgctt ccaatctttt gtgaattttt tattataaaa aatctatttg tatctatcct 300
aaccagttcg gggatatatt aagatatatt tgtacataag agagaaagag agagaaaaat 360
ttatagaagt tttgtacaaa tggttt 386

<210> 1447
<211> 261
<212> DNA
<213> Homo sapiens

<400> 1447
aaaattataa ctactcattc tttcttttagc cttagttaat ttgagcagaa gccacaacaa 60
gcaaaccaca ataaatttag aattggcaga aatccacatt aactcctctt cccaagtttc 120
cacactacta ccattttacag ttgtaggttt gtaatgtata attatgtaat gcagaaacta 180
gctttgactt gtgtaacgat gcactgtcaa agtaagcaaa gtaagaattg aaattccaca 240
ttcccagaat ttaacactca g 261

<210> 1448
<211> 404
<212> DNA
<213> Homo sapiens

<400> 1448
aaaaaaagga aaaagtttta ttacgaaact agtttgtata aaacagggtt atacatattt 60
ttgtaagttt gtaataaaaac agtaagaaaa aaaaggcagt aatagaaatc tccaaaaggc 120
aacctatcaa aaccaactgg ctgccacttt gagtttggac agtagctgca taaactttgt 180
tcttcttgaa cagtatttta taacatcatt aatacatata caacatttct ataaagtaag 240
acacattggt gctgaagtac aactggtggc ctcttgatct cacctatgag gagagttctt 300
tacaaaacca catagggaaa attgcagttg taagggtgaac tacacatcta aaatatgcag 360
aggtaatagc attacatggt aaagtatcaa gatatacaca tttt 404

<210> 1449
<211> 230
<212> DNA
<213> Homo sapiens

<400> 1449
aaaagttcta gtggtacggt aggagctttg caggaagttt gcaaaagtct ttaccaataa 60
tatttagagc tagtctccaa gcgacgaaaa aaatgtttta atatttgcaa gcaacttttg 120
tacagtattt atcgagataa acatggcaat caaaatgtcc attgtttata agctgagaat 180
ttgccaatat ttttcaagga gargcttctt gctgaatttt gattctgcag 230

<210> 1450
 <211> 194
 <212> DNA
 <213> Homo sapiens

<400> 1450
 aaaaactcct tttgggtttac ctgggggatcc aattgatgta tatgtttata tactgggttc 60
 ttgttttata tacctggctt ttactttatt aatatgagtt actgaagggtg atggaggtat 120
 ttgaaaattt tacttccata ggacatactg catgtaagcc aagtcattgga gaatctgctg 180
 catagctcta tttt 194

<210> 1451
 <211> 106
 <212> DNA
 <213> Homo sapiens

<400> 1451
 aaagatgaca aatactgggtt aattagcaat ttaagaccag agccaaatta tccaagagc 60
 atacattctt ttgggttttcc taactttgtg aaaaaaattg atgcag 106

<210> 1452
 <211> 349
 <212> DNA
 <213> Homo sapiens

<400> 1452
 ctgcagatcc tgcggaacgt caccaccac gtttccgtga ccaagcagct cccaacctca 60
 gaagccgtgg tgtctgctgt gacgcaggcg ggggcgtctg gaataacaga ggcgcaagca 120
 cgtgccatcg tgaacagcgc cttgaagctg tattcccaag ataagaccgg gatgggtggac 180
 tttgctctgg aatctgggtg tggcagcatc ttgagtactc gctgtttctga aacttacgaa 240
 accaaaacgg cgctgatgag tctgtttggg atcccgtgtt ggtacttctc gcagtccccg 300
 cgcgtgggtc tccagcctga catttaccac ggtaactgct gggcattta 349

<210> 1453
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1453
 aaaaataatg tgcaagagca tcatgagaaa gaagaggggt gaagagataa tccagaggaa 60
 catcaaatgt aagagtatac actcaaagac aggtttaaga aagaccagtc agagaagtaa 120
 agaaaaaaat caagcaagaa taatgttgca aaaattaaca agaaagttgc aagcccagag 180
 tggtttagcaa tgccaaacta ccatgagtaa gccacataaa acaagaactt tgggttcaac 240
 tgctttaaca atcagacctt tagattcaca taacaggagt taaaaatta agagcctctt 300
 tt 302

<210> 1454
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1454
 caagcgtaaa ccgcgggagc cgagcccagc taggaatgca gacctcctga aaaccaagcc 60
 gaggactgcg gggtcgggtg tccacgcaga gtgtcagctt cctctgggtc aaccagcaag 120

tcttccagta tgaatcccac agaaaccaag gctgtaaaaa cagaacctga gaagaagtca 180
 cagtcaacca agccaaaaag cctacccaag caggcatcag atacaggaag taacgatgct 240
 cacaataaaa aagcagtttc cagatcag 268

<210> 1455
 <211> 207
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 29
 <223> n = A,T,C or G

<400> 1455
 ctgtcgagag cagccctgcc caagawtgnc ggggtgggggc tggtgccaac gggttcccaa 60
 ggscctttcm actttkgaak ggctggartt cttgggaaac cmaaacsctg actacctgsc 120
 ttttttcttg ggcatygacs tgcttcattt ccaaratga tggkgcaggt gaccttttcc 180
 atcgtgagct aaaaaaaggt taggagg 207

<210> 1456
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1456
 aaattttctgt ctgctaaaat ctatcaaata cattaaggaa aagtcccact tggcacatct 60
 cccacaccag atgttaatta ttcatactgc atgactgagg attttggagg cagagagaga 120
 ttcactctgca atatttgga caccaatgga ggtctacgtc aacacagaat ttatacagca 180
 g 181

<210> 1457
 <211> 309
 <212> DNA
 <213> Homo sapiens

<400> 1457
 aaaaagwtca gagttgaaat gcctttcaac cattkccttc tgtggtcatt tttcttgctg 60
 cctttttcac ccaagattca gcagtcagat gtttactgca cacctattac ctattatttg 120
 ctgttcttgc atggttcaaa ccaccattct gtagccacce atcctttgcc ttatctaaca 180
 aacatttttc caggaagggt gaaaaggaag tgttgctctc attgtgtgac tcagtgtgct 240
 tgtccatccc atggaaacat gggcacaatc aagtatttgt ccagcctatt gcaggctttt 300
 cctgacttt 309

<210> 1458
 <211> 117
 <212> DNA
 <213> Homo sapiens

<400> 1458
 aaagactatt gagaaatagg aaggtattga gagattattg ggtttcatca kagcagactt 60
 aagtagcctg gttgatttta gatttgtcac agcaaaatca tgcttgatg ctcgagg 117

<210> 1459

<211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 371, 379, 428, 469, 498, 506
 <223> n = A,T,C or G

<400> 1459
 aaagaatgca taccagaaca tttataagca gtggagtgag kthtattaag aatagtacta 60
 ctacaataaa cgctggctaa ataagaagtg cattatgtga agcactatgg gtggtatatg 120
 cttwgmcaaca tactctkggt accttgaggy agatmacrca tgkgaaccaa cttcggcata 180
 catttttcagt tgctgcgagg aatcatgtgt tttaacgaaa tgcgtcagta tgaaaaactt 240
 gaaaatatctc atgaatgawg aacgcmttag gaaaaaaaata kstattctca tgcaattatg 300
 tacagtctca ctgtgtarat ctcaaggcaa ggtttgccctc ctgtaaacca gatcaagggtg 360
 ctatgagaga ncgcctgtgc ttattgcatt tcttttctcc tmctgcgcca gcattatatt 420
 gctctagnct ttatttttgt gtgcacactg acatgccatt aaaratgang ractatctca 480
 catgtagaaa argaaagnmc ttgganketa cctcagggtcg ctaccacgct aaggggygaat 540
 tctgcaggat atccatcaca ctggcgggcgc gattg 575

<210> 1460
 <211> 444
 <212> DNA
 <213> Homo sapiens

<400> 1460
 ctggggggttc cttccttcac gttgagaacc tggagcagag agtctaccaa cttagaagaat 60
 attagaaaga gttcagcaaa cagagtgagc tgaagtctaa tcctagaagt aaatccattc 120
 ctacaagtca tcagcatcac ttgggagctt gttagaaagg caaattcttg gttcagccta 180
 acacctaacta aatcagaaaac tctggggggcg gagcgcagca atctgtactt tcacaagccc 240
 tgcagggtgat tctgagcctg taaaatttga gaaccagagc tgtccccccag gagataaatt 300
 aacttctact tttttttgag ctactgcatt ttgggatctt attgttttat cagcttaaca 360
 tgcattcctga tatgattact caggatgtgt tcaaccaatg ttggttaatg tattatcccc 420
 aggaacttat tactagagga gcag 444

<210> 1461
 <211> 536
 <212> DNA
 <213> Homo sapiens

<400> 1461
 ctgcaaccct gggactgacc gggaggctct gattatttac ccmaccacag gtaggttgtg 60
 ttctgaatct caggttcaca ggttaagggt cagcatcctc atcctccacg gggttggagt 120
 tgttgctggt gatgaagggt ttgggtggct ctgcatagac tgtgatcgtc gtgactgtgg 180
 tcctattgag gccactggct gagttattgg cctggcaggt atagagtccg ctgttcttct 240
 cagtgatgtt ggagataaag agctcttgtg tgtgttgctg gatgttccca tcaatcagcc 300
 aagaatactg tgcagggtggg ttagaggctg catggcagga gaggtgagg ttcacccctg 360
 gacggtaata ggtgtatgag ggggaaatgg tggggkrtc ygggccatag aggacattca 420
 ggatgactgr gtcgctgtgs tyarcactta atkcgttctg gattccacac tcataggggtc 480
 ctacatcatt ccttgtgaca ytgartagag tgagggtcct gttgtcattg gacagm 536

<210> 1462
 <211> 409

<212> DNA
<213> Homo sapiens

<400> 1462
ctgakagacc aggagaagtt ccagatgcag agactgtgat gctcttgact atggaattat 60
tgcggccagt agccaagtta gagacaaaac aggcataagg cccgttatta tttggcgtga 120
ttttggcgat aaagagaact tgtgtgtgtt gctgcggtat cccattgata cgccaagaat 180
actgcgggga tgggttagag gccgagtggc aggagagggt gaggttcgct cccgaaagg 240
aagacgagtc tgggggggaa atgatggggg tgtccggccc atagaggaca tccaggggtga 300
ctgggtcact gcggtttgca ctactgagt tctggattcc acatacatag gctcttgctg 360
catttcttgt gacattgaat agagtgaggg tcctgttgcc attggacag 409

<210> 1463
<211> 502
<212> DNA
<213> Homo sapiens

<400> 1463
ccttcagcct ggatccttta tattaagatc aatgaggacc atttctggaa gatgtctggc 60
atggtacaga ctgtctgagg ccractgaac acaggccctt accctgattt tatcagtga 120
aagctatggg actagtttcc ttacctctaa aatggagaga ataataagaat ctcccgctca 180
agactkctgt gagcataagc cgagaaaatg gaggtaaact gcttagccca atacttgat 240
tatcgtaaatt attcagtaaa actagccacc gttgttattg taattattat tttgtatttt 300
attatacatt tcatggaaac ttaaaagtta gtgataatca cctcattttc agttgccttg 360
ctttcttctt gtaaatttta ttctctctta tcttgctcac tgtctttaag cattgccagt 420
ttagtataat tattttcccc taccctctat aaaatcatat acaggatgga tttgttgatc 480
tcagacatgt tcaactgagtt tt 502

<210> 1464
<211> 294
<212> DNA
<213> Homo sapiens

<400> 1464
ggcggctcgg actgagcagg actttcctta tcccagttga ttgtgcagaa tacactgcct 60
gtcgtctgtc ttctattcac catggcttct tctgatatcc aggtgaaaga actggagaag 120
cgtgcctcag gccaggcttt tgagctgatt ctacagccctc ggtcaaaaga atctgttcca 180
gaattcccc tttccctccc aaagaagaag gatctttccc tggaggaaat tcagaagaaa 240
ttagaagctg cagaagaaag acgcaagtcc catgaagctg aggtcttgaa gcag 294

<210> 1465
<211> 249
<212> DNA
<213> Homo sapiens

<400> 1465
gtgcaggctc tcagccgtga cccggtaacc cagctctaag ggagggtggca gcatcaaagg 60
ctccccctgc ctgcgtggca gcaggggaat cttgcgtcta cggggcctag agtcatggga 120
tctgggggag ccaccctgg gggcaagtgt ctgccctggg gctgtacctg ccttggtttc 180
acagcgggtga cccgaagaga cagcctgagg tccgtcctca ctactgtgt ttgaggaact 240
gtggggccag 249

<210> 1466
<211> 203

<212> DNA
<213> Homo sapiens

<400> 1466
cctcagacac cttttaattg cttaggagaa accattgtct ctgactgcag gtttgaataa 60
gttgaagacc agagaaaagt acacactggg ctacaaagga atttggagat agccaaggaa 120
caggatttcc cctagcaagc taccttctgt tcaaatacatg aaaaaagact atttcccctt 180
agaataggga agcttgctat ttt 203

<210> 1467
<211> 223
<212> DNA
<213> Homo sapiens

<400> 1467
ctgtcagaac aggaacgacc tgggttatgg aagcccagaa agggaggagg acttcttttg 60
gtcccagtga aagatgcttc cagaatctgt agccttactt atttgcttgg atctcactgg 120
aataacttgg tggtgaggtc accggttctg gggatgatcac tgggtttgct gcatagatgt 180
ttggatagat gacactcaca ttgcttgatt gacagcagac caa 223

<210> 1468
<211> 177
<212> DNA
<213> Homo sapiens

<400> 1468
ctgcattatg tgtgttttaga acgagaagtt gtttgtacag tatttttcta ttgaccgctt 60
ccgtcttgcc tgaaacctgg gcattctttc caatagacag aaaatcagag agtcaaatct 120
gatgcgcaat gagttgttct gagaccagta atccacgggtg ctgcaatttg gggttttt 177

<210> 1469
<211> 185
<212> DNA
<213> Homo sapiens

<400> 1469
ctgaagctga gaagtagcct atctatggar gagacttttg tttgtgttta attagggcta 60
tgagagattt caggtgagaa gttaaacctg agacagagag caagtaagct gtccctttta 120
actgtttttc tttggtcttt agtcacccag ttgcacactg gcattttctt gctgcaagct 180
ttttt 185

<210> 1470
<211> 482
<212> DNA
<213> Homo sapiens

<400> 1470
ctgaccagga gggacgggtc tgtggacgag gacttcgtag ctgaggagcc agattttcttt 60
ttggtccctt cctcctggaa tggaatcgtg gcgctactgt ggagatctga gttgatgtag 120
cacctgcttc ctcgatgta gtccgcaccc cggaccagat gccgctcggc cgtgggtctg 180
gagaaccggt atgggggaga ggagctctct tcaatgatcg gaggaatccg ctcgttactg 240
aaataccggc aaagggcatc ctcccctttc ctgccatgac ctcgaggtct ggcaaaaggg 300
tccacaatcc ccatccagtt cccatcagca ggcattggaca aaggccgtgg cttgccttca 360
gagggacgag aaagaagggtg acaagtttga tgagttctgg aacttttagtg aaccgttccc 420

tttatgtata acttagacct cacaatacca caccactta gacagaagca ataacaaatt 480
 tt 482

<210> 1471
 <211> 257
 <212> DNA
 <213> Homo sapiens

<400> 1471
 tgtgtgaact tagactkwtc aattcaacat ttttaacrta tkaaatacta ttgtgaattc 60
 aatgaagtgt tcttatgccca ctaactttaaa cctattccct tactcamgga tgtaggyaaa 120
 rgatggtaac aatacactat tkggcaagat aatgtmctga catmtytagc aatstttttt 180
 gmcagtggct tkcaactgma mwkaaskkam mkaatatgtg tkctgtwsqt arattattat 240
 tctgwywyta atcattt 257

<210> 1472
 <211> 342
 <212> DNA
 <213> Homo sapiens

<400> 1472
 cttttgcgag cctctgccgc agcagctccg ttttcacgcg catctcgttt ttgtgtgtgt 60
 gtttttgttt tgtttttggt tttgtttttt tgtttcagag aattggaagc taaagctacc 120
 aaagacgtag aaagaaatct tagcaggtaa gatggggcgag ctttccgtct cccgccccac 180
 gataatcgta tattttctact ccgattcgcc ctttctgggt tgagaagttc ccccgtagaca 240
 ttttcttccg caccgaggaga gcagacattc gggagaagcg gcctggggga atactggagg 300
 gattgcgggg agatgcgtaa ttacgcgtgt gtttctttct tt 342

<210> 1473
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 435, 442, 454, 462, 476, 524
 <223> n = A,T,C or G

<400> 1473
 ctgctacatg tcttcacagc ccaggaattc aaggcccagg tggcagcagg aagaaacagt 60
 ggaaaagcaa ggggaagaga aaagagaaaa aggaggggga aagtctgcat aactgtcata 120
 acctctgctt ctctgctct gtaacaaacc cacaaccagg aagagtcatt gtctggaaca 180
 atcatgggac cccaaacgcc tgtaggtttt ttaccaccaa acatcaccca tggctgctct 240
 aagctgtcat tttgttccca cagttaccta gcatcacgga tgcccaattt atggcccagg 300
 aaggctgacc caggctaagg gcagtctcac tccacagcca tgcaatggac agtctgaatg 360
 tttcctaccc cagaccttta ctgaccteta ctatttcctc ctctgatata aaagaaaaac 420
 acttttaatt ttctnctgca tnctacatct cctnctaaaa antttggcct aattgncatc 480
 aaaaccttgt aggaatctga aattttgggt cttctgaatc ttancc 526

<210> 1474
 <211> 187
 <212> DNA
 <213> Homo sapiens

<400> 1474

```

aaacttgttt gctgtgaaca attgtcgaaa agagtcttcc aattaatgct ttttatatct 60
aggctacctg ttggtttagat tcaaggcccc gagctgttac cattcacaat aaaagcttaa 120
acacattgtc caaaaaaaaa aaaaaaaaaa gcccckcccc sgggggsccc ttmaaggggr 180
aawtccc                                     187

```

<210> 1475

<211> 474

<212> DNA

<213> Homo sapiens

<400> 1475

```

ccattctctt tatctcaaac cgaagaaaga tatgatgcag gcagtagttt tttcttagtg 60
cctcatagta tctaatagca gaaagtgagc cgcatagcgg agcacattag tttttatgta 120
tctacaggac agaagggcca cttagctgat ggctccaggc ttcctttgat ataataat 180
gttcctatga cctcaaagac tgaacacatt tccctaagtg cttcacttag caccaggag 240
caacttgagc tcttcgcaga ataaaatcca ttattttaat gtagattaat acatgggtac 300
ttatatctat gcaggtctat aatagtttat tcctatgtaa gctttattaa aagcattggc 360
atgttttaca taaaaggtta atgtgaatat tagaaaaaaaa ggacaatatt aaagcagttt 420
gtagaatttg ttcccccccc aaaatgaatg aaatacacia tagatgtaca aaaa         474

```

<210> 1476

<211> 401

<212> DNA

<213> Homo sapiens

<400> 1476

```

ccttggggac agggcaggag gacgcacacc tcatggacag ggcgggccagg gctgagatac 60
cagcgggggtg ggtattcccc gcgggtgctt acctccaaca gtgtcttgtc agcaaaggcc 120
atgatgccct caaagatgat gacgtttgca ccatacagtg ttttctgtga agaaaccag 180
gagttgcgga gcctggctca tgtgcctgca gccccccgag gcccctctg cagggccctg 240
gcctaccagc tccttcttcc ggctgtgcgt ggtgaagtca taaatgggca ccttgacact 300
cttccccctgc ttcagcttct tgagggtgga aatgatgaag gtcgaagtca aaaggcatct 360
gggggtgggtc gaaagtttga aagtttgctt gtgggtgccgg g          401

```

<210> 1477

<211> 753

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 59, 75, 152, 194, 200, 203, 205, 674, 682, 709, 737, 746

<223> n = A,T,C or G

<400> 1477

```

cagcatgctt aaaaagttgg aggaattgga acagaaatac acctwmcaac ctkrmcctnt 60
taccaaaaac aaacnagtgg tatkggamcc sacctttmrk ctttttcmac macttatttc 120
aaagytsrta kgtggkgaaa agmcacycyk snatscywc rcacccttgw aggcyggttg 180
acttrataac akkncgtgctn atnwnrtgtga ggggtgatay tgatgrtgaa attgcactta 240
gctgggttat aattkgaaag tcaaagtctt atttgataaa gatgtgaatg agagaaatac 300
agtaaaagga ttttaggaagt tcaacatttt gggcacgcac acaaaagtga tgaacatgga 360
ggagtccacc aatggcagtc tggcggctga atttcggcac ctgcaattga aagaacagaa 420
aatgctggc accagaacga atgagggtcc tctcatcggt actgaagagc ttcactccct 480

```

```

tagttttgaa  acccaattgt  gccagcctgg  tttggtaatt  gacctcgaga  cgacctctct  540
gcccgttgtg  gtgatctcca  acgtcagcca  gctcccgagc  ggttgggcct  ccataccttg  600
gtacaacatg  ctggtggccg  gaaccagga  acctgtcctt  cttcctgact  ccccttgtg  660
cacgatgggc  tcancctttc  anaagtgtt  gagttggcag  tttttcttnt  tgtcacccaa  720
aagaaggtct  caatggnggg  acccanaacc  ttt  753

```

```

<210> 1478
<211> 421
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 399
<223> n = A,T,C or G

```

```

<400> 1478
aaacctatac  tcactttccc  aaattgaatc  actgctcaca  ctgctgatga  tttagagtgc  60
tgtccggtgg  agatcccacc  cgaacgtctt  atctaatacat  gaaactccct  agttccttca  120
tgtaacttcc  ctgaaaaatc  taagtgtttc  ataaatttga  gagtctgtga  cccacttacc  180
ttgcatctca  caggtagaca  gtatataact  aacaacccaa  gactacatat  tgtcactgac  240
acacacgtta  taatcattta  tcatatatat  acatacatgc  atacactctc  aaagcaaata  300
atTTTTtact  tcaaaacagt  attgacttgt  ataccttgta  atttgaaata  ttttctttgt  360
taaaatagaa  tggatatcaat  aaatagacca  ttaaccaana  aaaaaaaaga  aaaaaaaaaa  420
a  421

```

```

<210> 1479
<211> 214
<212> DNA
<213> Homo sapiens

```

```

<400> 1479
ggaaatatat  aataaaaaatg  ttaaccagaa  ggtaaacttg  agtgtaattg  tcagacagac  60
acacttttcc  accagtgtat  ttgaatttta  gaccagtgc  cctgttttgt  ggcattcatg  120
caaaacatgc  tgagggtttt  gttcatctgg  tcacgtgtgc  caaatttcag  tcatgtttgt  180
agcaagattt  tggaagcatt  catatttctt  tttt  214

```

```

<210> 1480
<211> 434
<212> DNA
<213> Homo sapiens

```

```

<400> 1480
ggaggccgct  tacgtaaagc  ccaggggaca  ttcaacagcc  cctactaccc  aggccactac  60
ccaccaaca  ttgactgcac  atggaacatt  gaggtgccca  acaaccagca  tgtgaagggtg  120
cgcttcaa  tcttctacct  gctggagccc  ggcgtgcctg  cgggcacctg  cccaaggac  180
tacgtggaga  tcaatgggga  gaaatactgc  ggagagaggt  cccagtctgt  cgtcaccagc  240
aacagcaaca  agatcacagt  tcgcttccac  tcagatcagt  cctacaccga  caccggcttc  300
ttagctgaat  acctctccta  cgactccagt  gacctatgcc  cggggcagtt  cacgtgccgc  360
acggggcggt  gtatccggaa  ggagctgcgc  tgtgatggct  gggccgactg  caccgaccac  420
agcgatgagc  tcaa  434

```

```

<210> 1481
<211> 131

```

<212> DNA
<213> Homo sapiens

<400> 1481
aaaatcccca taaatctttt ctgtcctgag gtagttgcaa aataaatcat aacttggata 60
tcaactagag ctgaggcttt gactttttac tcattaaaac tagttgttac aggaactacc 120
tttagatatt t 131

<210> 1482
<211> 324
<212> DNA
<213> Homo sapiens

<400> 1482
tgctcgctcc tcagaggctg aaaacatgag aagctaggtg tggtgaaacc aaagcagctt 60
tattgttcaa atgctaaaga cgggaggatg gactggctca agccttaaag aaaccatctc 120
gactttttga actcagtga cgggttttaag gaaaacgtgg gaaatatgca aagggtgggtgc 180
aggaggggtgc aggtctgtgt gtcttattcc catggatata ttgagtaata gcttgtccag 240
aggtgggggt tgtgtcatcc tgaattcaac ccagcaatgg taggggtactg ttcataactc 300
accctaagcc agaagattcc tcag 324

<210> 1483
<211> 393
<212> DNA
<213> Homo sapiens

<400> 1483
atgttttaatg aatgatacag gatacatccc tggttgaagc ttgcaaaaaga cacatacact 60
gtggtacata tttgatttaa tagaagttgt ttatcaggct atatatatat ttgcccacaaac 120
atgcaccaca ggataaaata actattttaca taacataggg tattttaattg acatagacta 180
tcagctttgc tgagagcaga agatggcaaa gcaataactgc agcagaaaagt ggaacaacta 240
ttctaaagca atactttaga tatatttttc tagaatggat ttattagatt acttttttga 300
aagcatttga cctaaattaa atatagagct ctgaaactta gaataaaaatt tgcacttgct 360
gaaacagaat actttgcata aaaataatcc ttt 393

<210> 1484
<211> 323
<212> DNA
<213> Homo sapiens

<400> 1484
tttagatcag aaagtttgag gtcttcatca gcagacactc gtgcttctat ttttcttggt 60
ttatcgaaca gttctgaaac tttgagaaaa aacttgcata tatctgtaga atcctgagtt 120
cctaaagcat ataataga accaattcta ttgtaatcat ctgcagcact tttgtgggat 180
cttgtcatcc tatcagattt agcagatgca tccttaactc ggttatgata ttccaaaaga 240
aatgttcggt cgtgctcaaa gaaatcatct acatccttta ctctgaaac gattactcca 300
tctgctgatt taaccatggt ttt 323

<210> 1485
<211> 405
<212> DNA
<213> Homo sapiens

<400> 1485

```

aggagcgtca ggaaaacacg ggcagcctgg gctctgaccc gagccactcc aactccacgg 60
ccacgcagga agaagacgag gaggaggagg agagttttgg gaccctctct gacaaatact 120
cctcccggag actattccgc aaatccgcag ccagttcca taacctgcgg tttggggaac 180
ggagagatga gcaaatggaa ccggagccca aattatggcg aggccggaga aacaccccgt 240
actggtactt cttgcagtgc aaacacctga tcaaggaagg gaagctgggt gaagccctgg 300
acctgtttga gaggcagatg ctgaaggagg agcgattgca gcccatggag agcaactaca 360
cggtgctgat tgggggctgc gggcgggttg gctacctgaa gaagg 405

```

```

<210> 1486
<211> 230
<212> DNA
<213> Homo sapiens

```

```

<400> 1486
aaaaatatgt ggattgtgct tgacgtagca aatttcttct atctgcaaaa gcccttttct 60
cactacctca tatacacccc ttgatattgg caccatgttt gaaattggag cgtacacaca 120
tagtcattgg atttactggg attctctttg tgacaagtag gagccaaggg gtcattgcagg 180
gaagcgaacg tgcccagataa ggatttcctt gttgccagag tgttttagcag 230

```

```

<210> 1487
<211> 273
<212> DNA
<213> Homo sapiens

```

```

<400> 1487
tttccactct gcacattgta gagggaaacac tctgtaggcc catgggtccc ttactagaga 60
ggttgagtga atttgccttc agttaacatg ggaccttctg tttagcttcc tcttgcttcc 120
caaagatttt aagcattttg taaatgtata aactcacctc tggtaacagt ggcccagacg 180
ctgctttgtg ctaaaagcat gggaaatgta aaggcagtct ttctctggga aatggatgct 240
attctattct gctgccccta cctgttcctg agg 273

```

```

<210> 1488
<211> 452
<212> DNA
<213> Homo sapiens

```

```

<400> 1488
cctactgtgc ccgtaggca aagctctgaa gatttcatcg aaaaatctgc tgtcaatacg 60
tagaaaagtt cactatttca gtttcacagc aaaaaggtg gggggagggg ggaaccaat 120
agatatttaa gtagatgctt tccaatccca ttcactgcat taattagctt acctcttata 180
cagtacaaca taaacattgc atgtttatth gtatgtaaca cctataagca tatagcatct 240
acattttaag tgtattttaca aattcaacaa aatatctaca tataaaaagc ttactttaaa 300
attaaacttg atgcaagtta tgagaaacca atttattggc aaatgaaact gagcattcct 360
tcaaccatag gttgttatag attttcatat ttggaggtaa cccatttgat agatattggt 420
tatgaatacg atagaatata tatttacttt tt 452

```

```

<210> 1489
<211> 653
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 556, 562, 568, 573, 589, 592, 632, 637, 645

```

<223> n = A,T,C or G

<400> 1489

```
cctgctcttc tcttcaaagc acttagtaca cagggktaca ggtgctacca cttggattcc 60
ccagagcatg gaagtctgat cccagggtga acatatttct tctgaaaatg agcatcttgg 120
ttctatagat tcttatcttg ctcacaggac ttgctccaaa actgaatttt cagaagcagc 180
atgataggga aagagatatt caactctgac agacaaggta gatcgaagca cccacactaa 240
tttctttcag gtgccccatg aggaagactg catcatgtca cttccactca cttggggaga 300
ttctaggact gagacacaaa gttccccag agtttctgct aatggaaggg gaaacagggtg 360
gtttggaatg gaaagggtgga accagggtcca caaaatgtgc tccctctgct caagactgac 420
tttggtcttc ccagggtcccc acttgacttt catataagct gagatgacct attacgggaa 480
aaattaggga acacctaata aaaccaactt tcaaaaactc ctatttatca tggatgtgcc 540
acgatcgaga gaatcnaaca cnaactgnct gtnagagagg ctttcattnt gnctcatctt 600
gagctaaaat cctgrcttgg gatgccagaa ancatgnccc tcttntcggg ttg 653
```

<210> 1490

<211> 363

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 347

<223> n = A,T,C or G

<400> 1490

```
taacctgaca aaataaaact tagtaaaatc takaactgtt tcttggccta cttgagagga 60
acttccatat ttccacagcc atctccgaaa gcagcagttg ctgtaaatta actgagactt 120
ggaaatgggtg cagactgtct tggtagagct gttcttatag cacaatttta tctggaaaat 180
aaacttgtaa atgcgtgctg tatattaata catgtgtgcc catatttatt tttattatct 240
cctgccagtc tttgctcaat gggagatgac agaccaactt ctcaacgtga tttccccatt 300
tcattgaatg agatttatat gccacttatg aaaaaaata ctgctgngaa agaaatgtac 360
ttt 363
```

<210> 1491

<211> 163

<212> DNA

<213> Homo sapiens

<400> 1491

```
taatcagccc ctaattttct catgtttaca cttcaatctg caggcttctt aaagtgcacg 60
tatcccttaa cctgccacca gtgtccaccc tccggccccc gtcttgtaaa aaggggagga 120
gaattagcca aacactgtaa gcttttaaga aaaacaaagt ttt 163
```

<210> 1492

<211> 184

<212> DNA

<213> Homo sapiens

<400> 1492

```
yattccccag gggaaaaaatt gaaagtcaaa ctattcacca agagaatgca ttgtctttgc 60
aaatgagcct aagaatcaga cttttttataa atacatgttc aagtttcttg tggttctaaa 120
tggacactga gaactgaaac tgtctacacc aagttttacaa tctatattaa ctatcattwt 180
acag 184
```


<210> 1493
 <211> 273
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 1493
 aggtaawttg tgatatttag tgcacattta cgtgtaggnc crtcttkaat ggtaaagaca 60
 gatacaagcc tatggcacac ttctccaaag caagctatac ttgagagcca attcccaaatt 120
 aagacagcag agatctgatt aaatgcaact gtgcaaacat tcaacagaca tgttgaatgt 180
 aagacaaatt atgattactg ataatatgca aatgtggtct ataaatttat gaatgtgact 240
 tccaagggga atatggtatg gaagcccatt ttt 273

<210> 1494
 <211> 343
 <212> DNA
 <213> Homo sapiens

<400> 1494
 ttggaaagcc tatcactttc tctcttcatt ctccagcccc cacaccaagc acacagagct 60
 tttcagtgtc ttactcttaa tggagaacat aaccagggat tatcagggtat tccaacatga 120
 aaaagaaagt ccaatagaaa caagcaggat aatcaaacca ggaggaagca gagactatat 180
 agagaaagaa aaaaagacac atgggaataa cggcaataat actgacaata cacctcacca 240
 taaactttatc agaatgaatt tgttggagaa atatatggag gggagggtact tgtgtgtgtg 300
 cacaggcact catgtacacg tgtgtatgtg tatgtttttt taa 343

<210> 1495
 <211> 378
 <212> DNA
 <213> Homo sapiens

<400> 1495
 tagcattctt ccagccactc tggcgctcact atgtgcttca cgacagaaat cgccgctcagg 60
 aacttcacgg tgcgagtcac tttgctggca atgagggtgtg tgcacttctg tgcagactcc 120
 gcaacctctc caccaagaat gtagagcttc ttaatatata gttgaacctg gacaggctcg 180
 aatccagtga aaagcacaaa aggggtcaat tctggagtta gcttttttagt gggagggtggt 240
 acgtcttcaa ttctggctct tttggaagaa ggctggacat tagctacttc attctgtttc 300
 agtttgggag gtagtcttat actcatcaac aactctgcag acacttttaa gggaactctc 360
 caagcatcta aaagattt 378

<210> 1496
 <211> 181
 <212> DNA
 <213> Homo sapiens

<400> 1496
 tggagaagga agtttttctg aagagccaga atccttgcta agtcatttag atccaactga 60
 ccatctttat ttctgtcaaa aatcttcac atgggtgccag tgtattcttc cagtttagcc 120
 tcagaaatgg cttttttgtg gtgaagaaag aggtctcgga ggaagttgag gagctcagca 180

g

181

<210> 1497
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 1497
 tggaagctga tccaccttga gatcaagccg gccatccgga accagatcat ccgcgagctg 60
 caggtcctgc acgaatgcaa ctgcgcgtac atcgtgggct tctacggggc cttctacagt 120
 gacggggaga tcagcatttg catggaacac atggacggcg gctccctgga ccagggtgctg 180
 aaagaggcca agaggattcc cgaggagatc ctgggggaaag tcagcatcgc gggtctccgg 240
 ggcttgggct acctccgaga gaagcaccag atcatgcacc gagatgtgaa gccctccaac 300
 atcctcgtga actctagagg ggagatcaag ctgtgtgact tcgggggtgag cggccagctc 360
 atcgactcca tgg 373

<210> 1498
 <211> 337
 <212> DNA
 <213> Homo sapiens

<400> 1498
 gctcttgtag tgcttttctt ttaagggaga tgtagtaaaa gggaaaatgt agctcttagt 60
 ttacacttca aagatgtggg ggtctttcag agaactaaga ataacagttt tatgtgcaga 120
 gagagtttgc cagatctgaa gcatatacct cattgactag gctgttactt tgggataggt 180
 tgcagtagca gccacagcca gcagatagag gaaaagacac acataaactc gcttctgagc 240
 gtccacttct gcactctctg ctctgctgtt actcagcccc tgagtctgac tcatctctgc 300
 acaacctctc tgtgccatga agataagtct tccatgg 337

<210> 1499
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1499
 catgcggagg gacttttagca tggctgataa ggtccttcct accattccaa aagaacagag 60
 gaccagagtt gcacactttt tggaaaggca gggcttcaag cagcaagctc ttacagtatc 120
 cacagatcct gagcatcgtt ttgagcttgc tcttcagctt ggagagttaa aaattgcata 180
 ccagttagca gtggaagcag agtcagaaca gaagtggaaa caacttgctg aacttgccat 240
 tagtaaatgt cagtttggcc tagcccagga gtgcctgcat catgcacagg attatggggg 300
 cctgctgctt ttgg 314

<210> 1500
 <211> 321
 <212> DNA
 <213> Homo sapiens

<400> 1500
 cctgaaacct ggtgggaaga tgattgaaag tgtttttagat tcaacagatt gactatgtat 60
 gacttatcta ttaaaatgaa gaacttccat ggtttaatag aatgaatgct gtattcaaca 120
 aggtcttcca tcttctttat aaatcttaag actgtgttta agctttcttt cacttttact 180
 ctatcccttg gaagttaatt ggggaataaaa agatttatca atttagtcac tataatttaa 240
 ggccaggcat ctgcttggaa atacaataac cacaattaat acttagagaa aattgtttca 300
 acagattaac tctgctatct t 321

<210> 1501
 <211> 557
 <212> DNA
 <213> Homo sapiens

<400> 1501
 ctgctctggg gaaaatgggtg gaggagccag gcagagagga ggagcagagt gctggcagtg 60
 gaaagcctag ctgagactgg agatgcccc ctgccc aaag catctcagcg aggatgcttc 120
 tccatatggg tgagccagcc tagagacaga acaggggaag ccagcgggtg ctgcagcgac 180
 ccaccgcccc agaacatctg catcttacat caacaaaggt ttattttctca ttaatatcca 240
 ttgtgggttg gctgccactc taaccctcgt tgcctctcca tctgggtctt ggggtggcaga 300
 gcagcctgtc tctgtggcag aggaaaagag agcactgggc agcacaggct gactctcaaa 360
 ttttccgcct gaaggtgacc caagtcactg ctcacatttc attgactaaa gcaaaatcct 420
 atgcctgtgg gtgagttgag caacgtgatg aggtgttaac ttcctacagg gaggggctca 480
 aatattgccc aacagtggta tggcccactg cctgggggtg tgggtggaag gctggcagga 540
 caagggagac cacgtgg 557

<210> 1502
 <211> 249
 <212> DNA
 <213> Homo sapiens

<400> 1502
 cctgcgggga ggcgcgctgc aagaacctgc ccggctccta ctctgcctc tgtgacgagg 60
 gctttgcgta cagctcccag gagaaggctt gccgagatgt ggacgagtgt ctgcagggcc 120
 gctgtgagca ggtctgcgtg aactccccag ggagctacac ctgccactgt gacgggcgtg 180
 ggggcctcaa gctgtcccag gacatggaca cctgtgagga catcttgccg tgcgtgccct 240
 tcagcgtgg 249

<210> 1503
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1503
 ccaggacctc ttttgggcat ttcttctctaa gtggaataca caacagataa gggagtaggg 60
 gaggtaatac aggggaagcta ctctttccag ctccagaagga gttgatgaag cccatatatg 120
 cattcaagaa gcccatggga tccctctagct gtggatagtg gctaattgtg tcatccagaa 180
 tcgacactgt ggaccgcggc agcgttttcc tgtacagctc caaaaactct ggatagggat 240
 ttacaggatc caatggccca tagataaaat gaatggggat agttacagag gcaagagctc 300
 cc 302

<210> 1504
 <211> 430
 <212> DNA
 <213> Homo sapiens

<400> 1504
 ccacgatatc aactatatttg ctttgtcagg tgttctctca aaaattggca gaagtgggtga 60
 gaatccgtat gccccgctga atctcctggc tgactttgct ggtgggtggc ttatgtgtgc 120
 actgggcatt ataatggctc tttttgaccg cacacgcact ggcaagggtc aggtcattga 180
 tgcaaatatg gtggaaggaa cagcatatct aagttctttt ctgtggaaaa ctcagaaatt 240
 gagtctgtgg gaagcacctc gaggacagaa catgttggat ggtggagcac ctttctatac 300

gacttacagg acagcagatg gggaattcat ggctgttgga gcaatagaac cccagttcta 360
 cgagctgctg atcaaaggac ttggactaaa gtctgatgaa cttcccaatc agatgagcat 420
 ggatgattgg 430

<210> 1505
 <211> 164
 <212> DNA
 <213> Homo sapiens

<400> 1505
 ccagtcacct tcaccttcta actaactagc ctccggatga ggtggctgcc accaggcccc 60
 aatgatcccc aggagcccag cttccaaacc ccaacatcga atcaaacatc tccatcccca 120
 agtgcagtaa cacacaaaaa ccaaacactc tgccctggga aagg 164

<210> 1506
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 1506
 aaaagtcata agggttttat tttgtatcat caaaatattc tataagggtcc caaataactct 60
 ttttcaacct atgaacagta agaatttggt aattctgata atgaaaaaag ttttcctcca 120
 ggtatgtttg tttcacattc agtcctaaag ccttgagcta tgtgtacttc cctcacacag 180
 gaacaccag 189

<210> 1507
 <211> 268
 <212> DNA
 <213> Homo sapiens

<400> 1507
 ctgcacagag gggcacggaa ctccaaatcc tggaatgcgg gtcaataatg tgaattcttg 60
 ccctgaccgc cagacacaca gcaagcctga gtcactctgcc gtcaccatgt cagccacaca 120
 atcctgtccc tgggcagget cggtggcaat gtctgtgatt ggcactctggt gccagccag 180
 ctctctgctc agtacaatgt tgggaccctt tgctgggatg tcaaacacca gcacccggcc 240
 tgaccacggt cccacacaga tgaagtgg 268

<210> 1508
 <211> 159
 <212> DNA
 <213> Homo sapiens

<400> 1508
 aaagatggca aggcaataaa tgtgttcgta agtgccaacc gactaattca tcaaaccaac 60
 ttaatacttc agaccttcaa aactgtggcc tgaaagttgt atatgttaag agatgtactt 120
 ctcaagtggca gtattgaact gcctttatct gttaaatttt 159

<210> 1509
 <211> 234
 <212> DNA
 <213> Homo sapiens

<400> 1509
 ccattgtgga gtacattatg aacacaatgt gcttgykaag tcttctctct cattttcaga 60

```

cagcaattgt taagagtcac acacacgtcc cagacctaag cagcaactcc agtgaatggt 120
actcagacac actcacggga cagcacagaa cttgattctt ctttgtctgt tgcccaaaga 180
acctgttctt tgagtctgtt ccagggtgact tgtaatgata cctcttacgg tttt      234

```

```

<210> 1510
<211> 437
<212> DNA
<213> Homo sapiens

```

```

<400> 1510
aaagcagtac atcttaatat gaagacagga atttctatga tgcttacgaa cattagactc 60
aacatttttg cagccccctt tcctgggtcta cattcacaca aacatgagac acagtcccaa 120
gggagaaaaca gatgctggag gagcatttag ggccagagtg gaggcacaga ggaagctggg 180
atTTTTcaac taccctctcc ttgggttactc ctgggattcc cttaggattt cacggcacaa 240
ccagcgaaga gtttgctcag attcacttcg gagtagccac ttcgggacaa gaattgctct 300
gctgtgttct tgagttttct gtagtcctgc agaactttgg gggtaaaaaa ttgcttcttc 360
aatttatctt tctcatgatc ggtagtaagt ttctccagtg cacactccgc atcaaaaatg 420
taccggtaaa agcacag      437

```

```

<210> 1511
<211> 94
<212> DNA
<213> Homo sapiens

```

```

<400> 1511
tgtgaagatg gagtctgagg ggggtgcaga tgactctgct gaggaggggg acctactgga 60
tgatgatgat aatgaagatc ggggggatga ccag      94

```

```

<210> 1512
<211> 493
<212> DNA
<213> Homo sapiens

```

```

<400> 1512
aaaaatatgc attacaactg gagttttcca ctgagaataa gagtttggtt ttgacctcmc 60
ataaatccaa gggttcttga aaaaaaagtt aatataaatt ctcaataact atatcattaa 120
taccttatgt atacatagga gtttatataa tgcatttaag taacaaagaa tgtaacattt 180
attagccacc aagtaattag gagatagcat caattatatt gaaagaagat gagtttagat 240
gcttatagtc aaggggagtt attgaaattg aaagctattg taggtgggta ctactattat 300
tatcaaacct gaaagttgga acatgtgaac ttgatccttt gcacacataa aagttcacaa 360
agctgctttt aatttgctt ttgtctgtag tactgcttgg tgaatcatgc actagtttgt 420
tgtaaaattc atgtaaactt ttatgtatac aaatgtcaga tcaagcacag gttttattaa 480
ttatatatat ttt      493

```

```

<210> 1513
<211> 510
<212> DNA
<213> Homo sapiens

```

```

<400> 1513
aatgaggat tattgatagt actcttggtt tttataccat tcagatcact gaatttataa 60
agtacccatc tagtacttga aaaagtaaag tgttctgcca gatcttaggt atagaggacc 120
ctaacacagt atateccaag tgcactttct aatgtttctg ggtcctgaag aattaagata 180
caaattaatt ttactccata aacagactgt taattatagg agccttaatt tttttttcat 240

```

```

agagatttgt ctaattgcat ctcaaaaatta ttctgccctc cttaatttgg gaaggtttgt 300
gtttttctctg gaatggtaca tgtcttccat gtatcttttg aactggcaat tgtctattta 360
tcttttattt ttttaagtca gtatggtcta acactggcat gttcagagcc acattatttc 420
tagtccaaaa ttacaagtaa tcaaggggtca ttatgggtta ggcattaatg tttctatctg 480
atthttgtgca aaagcttcaa attaaaacag 510

```

```

<210> 1514
<211> 511
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 472
<223> n = A,T,C or G

```

```

<400> 1514
ctggagatca ggaatagaac ctttccaaga tatcataata ttttctttat aggaacactg 60
agtaatggca agaataattt gagcttttcc atgggttaaga gcgatagtct cagaggctgg 120
agaaaatggt cattctgctc agtgatccag gagtgtgagg acagtagctt cctttccacg 180
tccacaagac aatgacagat gtgtttcctt ctttgccctt tctagggatc tttctaggga 240
tgttgattct ctcaaatat ttcaatgtcc catttctgtg tttcttctcc ctccaggggc 300
tgatttacga ttacatgagt cttgtcacia taatttcctc ctttaacatc aaggacaagt 360
tgatcactga gataagagct gatagttcca tttttattca gtctccactt ctgcctgaat 420
tgcccatggt cagtccatag agctacttta gctccagggt tgggtcccggc cnccatcaca 480
tcaagaactg gtttcactgg gccttggatt a 511

```

```

<210> 1515
<211> 176
<212> DNA
<213> Homo sapiens

```

```

<400> 1515
aaaggggaag gkgaractta aaagtattcc caactagatt atctacacca atacattgga 60
actctatatt ttgctttcat tttgtcttaa aaaaatgaaa tagcaacgct ctatcagtca 120
cacagaggac atgcarattt agcagtattg atattatact ctatcttggt ggattt 176

```

```

<210> 1516
<211> 309
<212> DNA
<213> Homo sapiens

```

```

<400> 1516
ctggggaaaa ccgtgcatta cctgcccac cgtttcatcg accagctcag caaccgcgtg 60
aaggacctga tggtcataaa ccgctccacc accgagctgc ccctcaccgt gtcctacgac 120
aaggtctcac tggggcggct gcgcttctgg atccacatgc aggacaccgt gtactccctg 180
cagcagttcg ggthtttcaga gaaagatgct gatgagggtga aaggaatttt tgtagatacc 240
aacttatact tcctggcgct gaccttcttt gtcgcagcgt tccatcttct ctttgatttc 300
ctggccttt 309

```

```

<210> 1517
<211> 182
<212> DNA
<213> Homo sapiens

```

<400> 1517

```

ccaacatcta attttttttac tttttaatta tagctgttgt gactgatgtg agatggcatc 60
ttactgttgt ttttgcttgc atttatttat ttgatgatta gtaaggatga gtgttttttc 120
atatacttga gtgtcttctt ttgagaaaat atctgttcat gtcctttgcc ttttcttgat 180
tt

```

<210> 1518

<211> 548

<212> DNA

<213> Homo sapiens

<400> 1518

```

cctgagggag agggaaaagc ggataccac ctgtgtcgtc gtttgctgct caagtccagg 60
aacagtccat acagccctgc tgcacccac gacgctgtca caaagcagga gttcatccga 120
ggccaagggt ttgtcatgag aatattcgtt aaagtaggga cgtgacttt gttcttgggc 180
agattctctt cctgtggagt atccagcctg tttgcctagt tttcctgttc ttctgggggc 240
tgatctctat ctgttttact gcagtccagt taccaaagtg gtataagtaa aattgaaaga 300
attctaaata ccttttcccc ccacgttagc tgcctcacgt taatgtgggc ttacgggtctg 360
caaataagtg ttttgatgat ttggcgactg cagttaccca tactagctct cctaccactc 420
actactgaca gttaattatt atcgaatata caccacacca ggggtgagtta taagttatac 480
caggtgtttt ggtaataaat actaatgcaa ttaatttact gggtactctc tcactctaaa 540
gtaatcag

```

<210> 1519

<211> 491

<212> DNA

<213> Homo sapiens

<400> 1519

```

ctggtgaagg acggttctt ggtggaagtg tcagagagct cccggaagct gcggcacgtc 60
ttcctcttta cagatgtcct actgtgtgcc aagctgaaga agacctctgc aggggaagcac 120
cagcagtatg actgtaagtg gtacatcccc ctggccgacc tgggtgtttcc atcccccgag 180
gaatctgagg ccagccccca ggtgcacccc ttcccagacc atgagctgga ggacatgaag 240
atgaagatct ctgccctcaa gagtgaatac cagaaggaga aagccaacaa aggccagagc 300
cgggccatcg agcgcctgaa gaagaagatg tttgagaatg agttcctgct gctgctcaac 360
tccccacaa tcccgttcag gatccacaat cggaatggaa agagttacct gttcctactt 420
gtcctcggac tacgagaggt cagagtggga gagaagcaat ttcagaaact acagaagaaa 480
ggatcttcag g

```

<210> 1520

<211> 169

<212> DNA

<213> Homo sapiens

<400> 1520

```

ctggtactgt cgatttggaa agctggctgg aaaaaactta ttcataagag ggctgatggg 60
gtgggacagg gccaggattc ccagcacgaa gaaatacatg gacagcagga ggttgatgta 120
ctcctgggag aatattttga aaaagaggta gagccccaag agtgtgcag

```

<210> 1521

<211> 293

<212> DNA

<213> Homo sapiens

<400> 1521

```

aggacgacgc tgtergargc agggagagca aattaccaca gcttcttggc ccagttctgc 60
ccttctttgc tttgggattg cactgggccca tcagctcatg ccaggctatg ggggcagcca 120
gttggcattg ctccccagac tgaacagaaa cctggccgcc ggatgggacc tcctttggca 180
cagacttgac tgtgtaactg cataaactgc agtagcatca ttgccctaga tgccccagga 240
gacctggcac catgaggatt acagacagtg gaatcttact gtcattctgga cag          293

```

<210> 1522

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1522

```

ccacgtggga ctttgaagac agcacaacac agtccttccg ctggcatccg ctccggggcca 60
aggcggagaa atacgaagac agcgttcctc agagtaatgg agagctcaca gtccggggcta 120
agctgggttct cccttcacgg cccagaaaac tccaagaggc tcaagaaggg acagatcagc 180
catcacttca tgggtcaactt tgtttggtag tgctaggagc caagaattta cctgtgcggc 240
cagatggcac cttgaactca tttgttaagg gctgtctcac tctgccagac caacaaaaaac 300
tgagactgaa gtcgccagtc ctgaggaagc aggcttgccc ccagtggaaa cactcatttg 360
tcttcagtgg cgtaacccca gctcag          386

```

<210> 1523

<211> 178

<212> DNA

<213> Homo sapiens

<400> 1523

```

aaaaagccta tcccatactg aattgtggga acctatgaag tgtctcttaa tgtcaattaa 60
aagtaacagt ggctgcagat attgatttct gaaagtacat gagaatttgt ctctaactat 120
ggttgaaaca acaaaaccaa atctgaatca ggtagaggtc taccagacac aaactctg 178

```

<210> 1524

<211> 319

<212> DNA

<213> Homo sapiens

<400> 1524

```

wycacagcwg aaatgggggca ctgaagtgtg gagscacaka atgcggggagg gcagaaccac 60
agacaggagg ctgagattga cctcctgagt gcaagctggt ccccccttca cctcctgcac 120
cctacgcaga tgggtgcttac cataggattg ccgtaaaaca gagacacgca ccagcgagaa 180
actttagccc ttagtatccc atcctcagga cagaatcact cttaaacatg ttgaaataca 240
tctgcttaga gcttttctat gtgtctatat aatgtatgca taatatacaa ttagaagcat 300
gtgattttat aacattttt          319

```

<210> 1525

<211> 467

<212> DNA

<213> Homo sapiens

<400> 1525

```

ccagactaga cagagatcag gtcattcagg gagcttccga gcttcagcaa agcccacagg 60
tagctctgcg aactcagaat gctaccctac cttccctgca ggccgctgtt catgtctgga 120
ctcctggggg cgctatttaa tgtttacccc catctccagt gccccctcca aggctgtgca 180

```



```

gtgtcttggg gctctcaggg ccaacatcga agagatgggg gccacctctt aacacctggc 240
aacagtctcc cctcatcctg attcctgaca acagacaaaa caccggtttc tagggtttat 300
ctgtttgttt tttgagttga gggttcctca gggccttggc attgctagtg atgggtcccct 360
ttgctgtgtg agaacccct caaccccttc ctctccctc tggggatgaa gtgggagtat 420
ttggctcccc atttttgaca aaagggctca gtgcagggag gtggagg 467

```

<210> 1526

<211> 439

<212> DNA

<213> Homo sapiens

<400> 1526

```

aaactgttta ctggagaaaa tcctcgctca tgtccattta ttgttttttt ctgtactgtg 60
atttgtttca agcttaggaa aactagtata ttagagtatg ttctaggaaa ttaaaagatc 120
tggtagagt aaaaagttct ttttaagggt cttaactaat tttttcacia ctaagaaaat 180
aatgaagta ttcttaggct gaaattcatc ttattttatc ataaattaga ttgtaggggc 240
agcctacatt tttgtgtatg tgttttttatt tcttaaataa ttgtgtgagc ctggtgacat 300
tttatggttc ttgtgatcta aactgttttt ccaattcaca tcttttgctg tgaagtgata 360
ttatactaga gtactgtttg cattgtaaaa atgctttgct ggtgctctgg cattttgtct 420
ttatctcatc acctaattt 439

```

<210> 1527

<211> 609

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 582

<223> n = A,T,C or G

<400> 1527

```

ctggagaact tgggctccat taggtgcaat cggttgagta attagcccat cttttacatt 60
tcttgccaca aaatctcgaa gagctgccat ttcagggtcg gacagtgaat acacatgtcc 120
actgggaata ctgtgtgctc caggtatcat ttctatgtga ggggtcaacca ggcgggtgatc 180
tgggtagacg tgctcatcta ctggagtgtg cacattctgg acatagtaat acctcactgg 240
ttggtaaact ctgtatccat ctactggata atagagtggc ggttggtgtg ctggtggtgg 300
gagcgatggg ggtattggag aatacatccg gcagtggtag cggcagtatt cagaatcaaa 360
gacgatagat cgagtgtctc atgtgatatt gggatcatgt gtgctcagcc agcgaacccc 420
taggacgaca gggaagaatg gagactgagt cacatcaaat gacagcacct ctcggtgatc 480
tcccagggtc actatcaggt cgtgagtttc gtggacaact gggcccgatg ctatggggcg 540
cccatcaatt gcttccacaa gtattggacc cgcccgggag gncgctcgca agggccgaaa 600
ttccagcac 609

```

<210> 1528

<211> 393

<212> DNA

<213> Homo sapiens

<400> 1528

```

tgatgtaatg aattcatatt tattgataca gaaaaatatg atataatcca tctaaaaagc 60
aagttacaaa acagtgtaca gtgtaccata gtacctatga acacaattag tgaagtaatt 120
tgcagagcta taatacaaaa tcagaaatta ttttggtaat gaatttatga ttttcctcgt 180
tttctgattt ttccatgat ctcatatact ttattctcag aaaacaaaag acaaaacccc 240

```

```

acacatacac aaaaataaac gagtaacttc tttacaaccc cagaggctaa gtcagtggga 300
aaagagggaa atgaatgggt atgagcataa acacagggac aaataaaaaga agtttggagc 360
acagagaaca attcacaaat cagaagtcac ttt                                     393

```

```

<210> 1529
<211> 143
<212> DNA
<213> Homo sapiens

```

```

<400> 1529
atccgataga atccagttca atgaccttca gtctttactc tgtgcaactc ttcagaatgt 60
tcttcggaaa gtgcaacatc aagatgcttt gcagatctct gatgtgggta tggcctccct 120
gttaaggatg ttccaaagca cag                                     143

```

```

<210> 1530
<211> 636
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 330, 504, 583, 591, 625
<223> n = A,T,C or G

```

```

<400> 1530
gtggagaagc ggcttggtcg ggggtggtct cgtgggggtcc tgccctgttta gtcgctttca 60
gggttcttga gccccttcac gaccgtcacc atggaagtgt caccattgca gcctgtaaat 120
gaaaatatgc aagtcaacaa aataaagaaa aatgaagatg ctaagaaaag actgtctgtt 180
gaaagaatct atcaaaagaa aacacaattg gaacatatct tgctccgccc agacacctac 240
attggttctg tggaattagt gaccagcaa atgtggggtt acgatgaaga tgttggcatt 300
aactataggg aagtcacttt tgttcctggn ttgtacaaaa tctttgatga gattctagtt 360
aatgctgcgg acaacaaaca aagggaacca aaaatgtctt gtattagagt ccaattgatc 420
cggaaaacaa tttaattagt atatggaata atggaaaagg tattcctgtt gttgaacaca 480
aagctgaaaa gatgtatgtc ccmnctctca tatttggaca gctcctaact tctagtaact 540
atgatgatga tgaaaagaaa gggacagggt gtcsaaatgg ctnttgagcc naattgtgta 600
acatatcag taccacaattt actgnngggaa acagcc                                     636

```

```

<210> 1531
<211> 194
<212> DNA
<213> Homo sapiens

```

```

<400> 1531
aaaaggcaga gcattctttt ttccggcaatt ttgataagca aggtgtagat ttacattttt 60
gtccttgctc ccaacgaaat ggataaaca aaataactta ccatctactc atggaatgtt 120
gttgtgttag ccagtctgaa ggcccacctt aatttttata taactgtctt tagctcttct 180
tttgacaggg cagg                                     194

```

```

<210> 1532
<211> 300
<212> DNA
<213> Homo sapiens

```

```

<400> 1532

```

```

ccatacaagg taattttgac aggttcctgg gattaggaca tgggcatctt gggaggccac 60
tactggccta ccacaactgg gcagcaaaac tattacaccc tccggtataa tagttttggt 120
gtttcaatga ctgggaggaa aagggttggg attttttgct ttgggggtccc tcttaacctt 180
gtattttttaa ggtctgggac tcaccaaccc tccccttcca accagagaaa ctcactgcag 240
tatctccttg aaagtctggt gacgagtctg tctaagtgct ggtgagaggc acaggaccaa 300

```

```

<210> 1533
<211> 521
<212> DNA
<213> Homo sapiens

```

```

<400> 1533
gttcctttgc accctgtaga tgttctagga tagttgatgc atgttactaa attacgtatg 60
caagtctgtg agtgcgctctg aggggacatc gccaaggact gactgagaca cgatgccgag 120
acctcaagcc ctgaggggca gtcccaaaac ccttacagtg aagatgttta ctcattgccc 180
ccacctctgg tccacactag aaagaagctc gccccacctc cacctgtgag atccgtgaat 240
tctcggaatg gcaggggaag ccttgcaacta ggttgacagag aagcatcctc cacatcctgt 300
gtcagaaaacc ctggtctccg tggcacttgt aactcacctg gctgtcttct ggtctgtgtg 360
tgttcttcaa gccagctcta ggcttcaggg cgagccaggt tcacactcag aaagatgtct 420
ccccatcccc attcgggggt gacgatgggg ggctgatggc tgcccctgcg tggcctgagt 480
cctgggtccct ctgaggcagt tgacggggca gtcagatttt t 521

```

```

<210> 1534
<211> 181
<212> DNA
<213> Homo sapiens

```

```

<400> 1534
actcaagaag atgtatttaa tgcttgacaa taagagaaag gaagtagttc acaaaataat 60
agagttgctg aatgtcactg aacttaccca gaatgccctg attaatgatg aactagtggg 120
gtggaagcgg agacagcaga gcgcctgtat tgggggggccg cccaatgctt gcttggatca 180
g 181

```

```

<210> 1535
<211> 544
<212> DNA
<213> Homo sapiens

```

```

<400> 1535
aaaataggac actaaatcct actctgaaag gtggtttgat caggactaaa gagaatgtat 60
gtagagtgtt ttgtgcaacg aattgtgggg agcttggacc caataaggta gccagaatta 120
cccacaccat catcatcttc accaccatca ttattgttat cgacatattc caatacactt 180
ctgaaggggt ggaagagaga aatatgtttg tgcagacagg cggcagcagt atttgatcca 240
ccaccacagc tccaccgctt gggggcagta ctgatccacc tgtgctcccc tccctgcccc 300
agcctggaaa gctaatttca gactcaaaaa aatcaagtac agagcagcgc acccactcca 360
atgagtcate cccgcccact ctagacaaca gcatgctcat gactcaaact atcttcgtga 420
atggttcaaa atatcaagaa ttggtttcca tagtttcttg actaaccaga cacaaaattt 480
cccctacatg cagagattca tgtctcaact tcaactgtac attaaactca accgggaaac 540
tttt 544

```

```

<210> 1536
<211> 591
<212> DNA

```

<213> Homo sapiens

<400> 1536

```
ctgagttaag atggtaaagc caatattatt ttaggaggaa agaggacgaa ggccaatgaa 60
ccaacatctg cctgctatct ggtgcatcac ccaaggtgac caatggctgg gcacaaataa 120
acttctcttt tgctagccac agagttgctc actgtggcaa gcctgagctg gtcagaacac 180
ctgtgtgtgt gttcctgata cacactaacc acaataagca agtctgcaca catctctatg 240
agcccatgac aaagacaaga cattcccaaa gatcagtcac tagagtgcac caacgaaatt 300
caagatttga ccaaaacaga ccctgctgcc tcctaaattg ccaattgcct ctcaaaaact 360
tacagaaaaa gggacattat aagaattcat agagggagag aagaaaaagc tgctactcct 420
agtcattagt acaatgtgct gtgttaatta gatacctcta tataaattag aaaaagtgct 480
ttacttgcac gcttcaataa aatgaatact gagtgtcgta gtgttagatc tgtacagata 540
taaatttttt gcagctatat aaaagtgtat aagatgggct tttgccattt t 591
```

<210> 1537

<211> 341

<212> DNA

<213> Homo sapiens

<400> 1537

```
acttcggggc tccctctccc tgtgcagacc ggttgaataa atgataaaat tactgtttgt 60
gtcctctgtg aagtctggat taatggaaaa aaggatttgt gaggctagtc ttaggctgta 120
gccaatctgg tgtgcttttt gtgtcttctt gtatggttcc atgataagga ggaatacctt 180
aggatagaat gcaagcctag gaccccataa gcctgttggt caagccaacc agcaaactgg 240
gcagtaacaa acattgctgc aggtttccat tttgttttac gtccttggga gcttgacctt 300
gtaaccacgt ggcagtacct tcttttggcc tctgccattt t 341
```

<210> 1538

<211> 363

<212> DNA

<213> Homo sapiens

<400> 1538

```
ggacctgact ttgagtccat cagagacaaa gtgagtgaga tgcacataca gtgtttccag 60
acctgactca gcccatctgt ctgttaggaa actttatgaa gacgcccccc agaattaaac 120
cctaattcaa atgtctcact ctgaatagag accttctgaa ataatcttgg tatagagacc 180
cagacacgtg ccttttgctt taaaataaaa atatttagcc catgttggtt tatgtatctg 240
tctttcagtt agttttgaag gcccgcacgg aaaagtgggg cctgtgcacc tgaaaagaaa 300
tgtgtatgtt atgtgggtgt tggcttttcc tactagagtt atcttgataa ttgtgaagag 360
tgg 363
```

<210> 1539

<211> 371

<212> DNA

<213> Homo sapiens

<400> 1539

```
ctgtgggggt ccttccagag aggagctgag atacgcctac ctggaggggc cctggggcct 60
ggagggggtc ctgagtgatg ctgggtgaag tgttttcaga ggaccagggt tgaggttggg 120
ggcatctcat ccagaccctg ccggcatctg cccagaaacc caagggcccc tcttccctcc 180
ctcctcaatg gaaatgctgg agatgtcctc agtcaccctc tgagcactca cacatcacc 240
cttatttgga aatttttctc actetaacct tcttccctgc tgcaccttct gccccatccc 300
caggctctgg cctctctctc tctcttctta ccctttagca ggtaatgact cagttccccc 360
tgaggagcca g 371
```

<210> 1540
 <211> 403
 <212> DNA
 <213> Homo sapiens

<400> 1540
 ctkgacgtga tggagcaggt gagcagtgcc cgtgggggctt gccagagggc tgaggaggac 60
 cctctctaac cagctccctg tcccccttct tctgtagctt gagttgaaga agacactgct 120
 ggacaggatg gttcacctgc tgagtcgagg ttatgtactt cctgttgtca gttacatccg 180
 aaagtgtctg gagaagctgg aactgacat ttcactcatt cgctattttg tcaactgagg 240
 cagcaatgca ccgttggttt catgtttcat actgtttaca ctagcactgc cctttttggc 300
 ttaatttagt tcatttttgta cctaactgag aactgtgctt tctgatgtag tgatgacaat 360
 gacagatact cgttttaccaa aaagcacctt ctgcctgcag cag 403

<210> 1541
 <211> 428
 <212> DNA
 <213> Homo sapiens

<400> 1541
 taaaacaaaa ctaaagaaga gaaaatatat tctcgtaaact tatctgaact taaaagatgg 60
 aagcctggag atagatttgt gataagccat tgctgagtag atcctagagt tcttgataat 120
 ttcagttggg taaattacaa tagtttgcta tttcctccct cacattttat gttctacagt 180
 atctagctgc ttgggttttc ctgtatacca tggggcttct gtcactctggg ctttactcag 240
 tggcatattc cctctgccta aaactctcct cccctctcca ccttagaagt agcttttccct 300
 agaacgggtt tcccagggtt tcacctaagg tgatagtaca atctacaggg acctgcacat 360
 gaagaccttt gcatacatgc caggaagttg gacttttatct ttggaaaaag ggagcctttg 420
 aaggtttt 428

<210> 1542
 <211> 345
 <212> DNA
 <213> Homo sapiens

<400> 1542
 awttaaatgc ttagcaagca gcaattccac gatgggtcaaa ttcctaatat gagagaagta 60
 gaaataggaa aaatagggtc ccctgatact tatgttttca ttttgcttaa tatacgtttg 120
 tatatttcaa tataacatta atagatatcg tgtcccttca cagttctaaa gtagtaagca 180
 aaatgaatta atttaacctg tgcaattaaa accaatttgg aagaatattg aggtagcaca 240
 ctgttacggg aattagtagt actcagtaat gcagttgaaa gttagtggct cctaattccag 300
 tatgaatcat ggagatgaga gaaatgatta gataaagaga tatatt 345

<210> 1543
 <211> 420
 <212> DNA
 <213> Homo sapiens

<400> 1543
 aatattgaat ttctagaagc agtatattgc ttactgcttc ttaattacgt tatagatgag 60
 gtggaaatga taaaaactaa agaagcaaga ttaatcttta acacacattt caggctgttg 120
 taaaagaata aacaatgctt catataaact tctagcaaat gacttcctaa tgagggtcttg 180
 aaacagtctt tagggcacgg aatgtcatca cataattaag cagctttaag cctttattaa 240
 aaggcttaaa gtcgcaaaca atgaaatctg aaacaaactg taccatatta aactttttga 300

tgatattttca aattcagtaa aagaaaaaaa ggatggttca gaataacatc acgtatttcta 360
atcctgaaac acataacaaa tgcattctgaa acagcaattc ttaaaaagggt tttgcccttt 420

<210> 1544
<211> 306
<212> DNA
<213> Homo sapiens

<400> 1544
ctggcttcac tctactccc tctctgctcg cagcacgtcg gccgccagct ctttgatgtg 60
ttcccaggcc cgctgcacat gggcagattc caccgtgcga gaacagatgg caaagcgcag 120
gacaaacttg tccctgaggt gacatggaac caagtggatt tttttggcac tgtttattct 180
ttgcagaaga gcttcattca ctttgttgga accctttagc cgaaagcaga caagccccag 240
aatgacttcc acacagattt caaagcgggg atcctggcgc accagtgact caaactcatg 300
ggacag 306

<210> 1545
<211> 110
<212> DNA
<213> Homo sapiens

<400> 1545
ctgctccggg ccttcatect gaagatcagc gtgtgcgatg ccgtcctgga ccacaacccc 60
ccaggctgta ccttcacagt cctggtgcac acgagagaag ccgccactcg 110

<210> 1546
<211> 239
<212> DNA
<213> Homo sapiens

<400> 1546
aaagaaatat gacacggtgt tggatattct aagagacttt tttgaactca gacttaaata 60
ttatggatta agaaaagaat ggctcctagg aatgcttggt gctgaatctg ctaaactgaa 120
taatcaggct cgctttatct tagagaaaat agatggcaaa ataatcattg aaaataagcc 180
taagaaagaa ttaattaaag ttctgattca gaggggatat gattcggatc ctgtgaagg 239

<210> 1547
<211> 527
<212> DNA
<213> Homo sapiens

<400> 1547
aaaaattcca gttgagattt ttctggttct ctgtataaag attgactgga acatatacat 60
tttgggggtt atgtttggag actttggctc ttattcaaac cttccatttt agttggcttc 120
ttctgacagt gcttcagcat ggaagcaagg agggggcctc attactgcca ggtaagggtg 180
aaaatctagt ttctctgctg ggtctccatt gtcactaaga aaggaatggc tctgttattg 240
ctgggcaggg ttggctgttc caactgataa tctatgtct gggagggcta ggagtgcctc 300
cttgctgttc ctcttggtgt ttccactgac agtggagtgg ccttggttact gctgggtggt 360
ggttgagagt tctggctctc tactagggag gacacaacct cagtgtagag aggcggggat 420
accttggttac tgtcaggcac aggcggaggt ccagtctct tactccacct acccaacagg 480
gtagcttgag gcacttcatt attgcctagt gagagtggaa gtttagg 527

<210> 1548

<211> 333
 <212> DNA
 <213> Homo sapiens

<400> 1548
 ctgtgggagg agctagtagg ggcggggcta cgtgattgac acttctctcc tcagacttca 60
 agggctacca ctggaccctt cccctgtctt gaaccctgag ccggcaccat gcacggacgc 120
 ctgaaggtga agacgtcaga agagcaggcg gagggcaaaa ggctagagcg agagcagaag 180
 ctgaagctat accagtcagc caccagggcc gtattccaga agcgccaggc tggtagagctg 240
 gatgagtccg tgctggaact gacaagccag attctgggag ccaaccctga ttttgccacc 300
 ctctggaact gccgacgaga ggtgctccag cag 333

<210> 1549
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 1549
 ttgacagtgt acgctggagc aggttccagg gtgggggctgc cctgccgcct gcctgctggt 60
 gtgggggacc ggtctttcct cactgccaag tggactcctc ctggggggagg ccctgacctc 120
 ctggtgactg gagacaatgg cgactttacc cttegactag aggatgtgag ccaggcccag 180
 gctgggacct acacctgcc aatccatctg caggaacagc agctcaatgc cactgtcaca 240
 ttggcaatca tcacagtgac tcccaaatec tttgggtcac ctggatccct ggggaagctg 300
 ctttgtgagg tgactccagt atctggacaa gaacgctttg tgtggagctc tctggacacc 360
 ccattcccaga ggagtttctc aggaccttgg ctggaggcac aggaggccca gctcctttcc 420
 cagccttggc aatgccag 438

<210> 1550
 <211> 204
 <212> DNA
 <213> Homo sapiens

<400> 1550
 aaaactaagt tattccaaca ctaaaagcat acaacagcat gccaacagta atatattatt 60
 ctccaagact ttacctatgt aagtgttcaa aactctgcag cattaacaa cgtgtatgca 120
 aattgttatg gatacatttc agaattctaa aaatcaggca agtgcttaaa aggccaacgg 180
 tccaagggat tacatctgca gttt 204

<210> 1551
 <211> 132
 <212> DNA
 <213> Homo sapiens

<400> 1551
 ccattctgtg atttgtctgt gcacctattg gctcttctag ctgactcttc tgggtgggct 60
 tagagtctgc ctgtttctgc tagctccgtg tttagtccac ttgggtcatc agctctgcca 120
 agctgagcct gg 132

<210> 1552
 <211> 433
 <212> DNA
 <213> Homo sapiens

<400> 1552

```

ctgaatagag gtcaacacag ttgcgatgtt gagggatggt ctccaagcac cttttggtgg 60
caatttgaga acatccagac aaatccttcc agcagaatca atgtttggat gataaattgg 120
agtgagaaat cggatctgag gaggttcaaa tgggtacctc tcaggaatga taacttctag 180
cttaaaaaca cttttctcat aagggtgtgtt ggctccacct aatatttgag ctgcgaggtc 240
atccatttgg tctttatctt gccaacatgt gatgcctggg ggtggctctg tggctaacat 300
gtgcagctct ctcttcagac gtgaagctct ctgcatgac cccaagtaga aggaaccaca 360
cacagttcac tgctccacac taagagctgs ctgggatgca ctgagctgac acccctcaca 420
acgcagcaac gcg 433

```

```

<210> 1553
<211> 316
<212> DNA
<213> Homo sapiens

```

```

<400> 1553
gagcaaggtc tgctgagaac agacccagtc cctgaggaag gagaagatgt tgctgccacg 60
atcagtgcc aagagaccct ctcggaagag gagcaggaag agctaagaag agaacttgca 120
aaggtagaag aagaaatcca gactctgtct caagtgttag cagcaaaaga gaagcatcta 180
gcagagatca agcggaaact tggaatcaat tctctacagg aactaaaaca gaacattgcc 240
aaaggggtggc aagacgtgac agcaacatct gcttacaaga agacatctga aaccttatcc 300
caggctggac agaagg 316

```

```

<210> 1554
<211> 542
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 517, 532
<223> n = A,T,C or G

```

```

<400> 1554
aaaggaatta ttctggcagc acatgtagta ttcttggatg atcttgctgc tcttatttct 60
ccttttgtgt gtgtgtgtgt gtgtgtggct atgggttttc atttgtaact ccatctgctt 120
argagagtgg gctctctata agggaacctg ctgtaaactt cattgcagca aggatgtaga 180
gagaaatagg acttaattcc actaggggct ctcatctcac accttaagga ggagatttct 240
agaaaaactg ggccagattt tctttgytct ccatcatttt aatgtggcag gctgytcagt 300
tttcttactc ttacctatgw gatatttctt cgtaacgtgt ccaaaaagaa aaaagaccca 360
atcagtgtct cttgactttg ttctttgatc cctcagtttc ttcttgattt cagcatgtgt 420
ccgggttcct aattttgggt atgagttagc aaattttaacc attgtgtttg tgccctaccc 480
aggggactcc ccagtttctg acttgaagta gactganaag aatccacgag gngctatatt 540
gg 542

```

```

<210> 1555
<211> 117
<212> DNA
<213> Homo sapiens

```

```

<400> 1555
ctgtctgtgg cttcccatgt ctttctccaa agttatccag agggttgtga ttttgtctgc 60
ttagtatctc atcaacaaag aaatattatt tgctaattaa aaagttaatc ttcattgg 117

```

```

<210> 1556

```


<211> 111
 <212> DNA
 <213> Homo sapiens

<400> 1556
 ctgctgcagc cgcagtttct catccggagt gtaccccgctc atgtcgccgc tggtagcaac 60
 gcaaaaggac acggcgcacc ctggaactac ggactagtta ctttagcgcg c 111

<210> 1557
 <211> 454
 <212> DNA
 <213> Homo sapiens

<400> 1557
 cgaggactga tcctctagta ctaagtgact ggggatatta caytarccaa cattgggtga 60
 tacatacctk artmatcatw tgaggaygca gtgataarsg satawwmywg tatsatccya 120
 acaygyacta rctcaaaaac tagtgggggc ggattgatct cctgtgggac wkcacatgsc 180
 ctgaaagtga acatgmtcmt ratcacctgc agrgcttgag atggyccmca tkgcwgcact 240
 ccgccccyac akttttttgaw tcwacwggag ttaggswgmt yctwgawtta kcctttctac 300
 ctgcctccyg akagrwcgcw wygastwggg kgaatssatt gackkctaag rttakacttc 360
 cactaactct gtacgmtgar ctcttactaa tattcgttac cacgctaaga ggctctgctc 420
 caggatctca tcgcgactgg aaggaacctc cagc 454

<210> 1558
 <211> 404
 <212> DNA
 <213> Homo sapiens

<400> 1558
 aaagaagtgc agttgatatc taattttacac agtgaaacta gtgatagaaa ataactaatg 60
 aaaaaaaatc agagactggt ttccaattga ttgacaccta gatctgtcag cctctcttaa 120
 agaaagggga aggagaaaaa aaatctcatc atggaaggca gacaagagtc cacctgacag 180
 aggtggaatc tgatggaatc tgaccccatc tcatgataaa cgagaggaaa cataaatgcc 240
 atctcaaata ctaaagcgat gtagtgtagc atgagtgcac caatgcaaat tcacagagga 300
 aaagaagtta cggcttagga agtaggacaa taaatacaaa tatttcatct tatttaattg 360
 tgcattgactt cagtgaact accctttgca atgcaataaa tttt 404

<210> 1559
 <211> 266
 <212> DNA
 <213> Homo sapiens

<400> 1559
 aaactatcag aagagatgag aggggaattga tctacaatac tagaatttta tgtgcagaca 60
 aatccacatc tggaaatgaa atcacagtaa gatattttcg ggagacccaa acataaaaaat 120
 tgctagaata aatttgccac gaacgagtaa ctagacatta gaaattgact acatagatat 180
 agtaatacta aaagtgcctg aaacaagcaa acacaacaca cacattctca attctttttt 240
 tttctatcaa atatcttcaa cttttt 266

<210> 1560
 <211> 142
 <212> DNA
 <213> Homo sapiens

<400> 1560

```

aaaactcagt atcttctgaa ccagaggcat ttctgattag cccttcccta cctattttcc 60
tagtatcact ctttaatcag cttggggagg tggcagcatt tcatggcctc cgtagtaact 120
cacaatgctt cctggggtat tt                                     142

```

<210> 1561

<211> 381

<212> DNA

<213> Homo sapiens

<400> 1561

```

aaacactaaa tgaagcttct cacaatttct aattataaac aaaaggctga aaacagtatg 60
ggaaacaaag tttcaaaaaca aagaaaagtt gagtaaaagg tgccccctct atggctcatc 120
tgaaagaaac attttactca gagaggcaaa catttctgat ctaggagtaa gtttcccact 180
cactttgcaa ggaccctctc attctgcaga aagacctaca agtctttctg gtctcaattg 240
caaagtacgt gaaaatgtgt atgaaagatc taaaagctaa atattagaat aaggctaatt 300
gaaatcaaaa ttgtgtgctg gtctaaatat acatcttcgg cttcttcctt tttagtaagt 360
atttttattt cagatgtatt t                                     381

```

<210> 1562

<211> 368

<212> DNA

<213> Homo sapiens

<400> 1562

```

ggagaaagga gaaccgtaca tgagcattca gcctgctgaa gatccagatg attatgatga 60
tggcttttca atgaagcata cagccaccgc ccgtttccag agaaaccacc gcctcatcag 120
tgaaattctt agtgagagtg tggtgccaga cggttcggtca gttgtcacia cagctagaat 180
gcaggtcctc aaacggcagg tccagtcctt aatggttcat cagcgaaaac tagaagctga 240
acttcttcaa atagaggaac gacaccagga gaagaagagg aaattcctgg aaagcacaga 300
ttcatttaac aatgaactta aaaggttgtg cggctctgaaa gtagaagtgg atatggagaa 360
aattgcag                                     368

```

<210> 1563

<211> 411

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 32, 332, 333, 346, 361, 381

<223> n = A,T,C or G

<400> 1563

```

accwtrsaac tgcawttatt acctatgcta gntttggata agaamtgkyc wtayatgtga 60
kagcaagagg gcacyaraws wrcttsaaca ccaawgggcm ktactwtata kawmcgawgg 120
gcatgctwtm atgaccaact grmtgactgt ttgagaatgg acaargtgct agcgctaaac 180
ctgtccttct tgaacrtggc ttgactaacg kcwttgatac gtttrccttca kkasaataact 240
attactasac tttgktgctt gattaccgac tgggtgcactc ttgmtctcac ctatgargac 300
agtgctttac acaaactcrt akggaaaatt gnntttgtmc tgtganctac tcatcygaga 360
nctccctaag ggctaacatt ncatgtttcc gtctcactag ctacacgttc t                                     411

```

<210> 1564

<211> 602

<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 597, 598
<223> n = A,T,C or G

<400> 1564
ctagtttttaa gatcagagtt cacttttcttt ggactctgcc tatattttct tacctgaact 60
tttgcaagtt ttcaggtaaa cctcagctca ggactgctat ttagctcctc ttaagaagat 120
taaaagagaa aaaaaaaggc cctttttaaa atagtataca cttattttaa gtgaaaagca 180
gagaatttta tttatagcta attttagcta tctgtaacca agatggatgc aaagaggcta 240
gtgcctcaga gagaactgta cgggggtttgt gactggaaaa agttacgttc ccatttcta 300
taatgccctt tcttatttaa aaacaaaacc aaatgatatc taagtagttc tcagcaataa 360
taataatgac gataatactt cttttccaca tctcattgtc actgacattt aatgggtactg 420
tatattactt aattttattga agattattat ttatgtctta ttaggacact atgggtataa 480
actgtgttta agcctacaat cattgatattt tttttgttat gtcacaatca gtatattttc 540
tttggggtta cctctctgaa tattatgtaa acaatccaaa gaaatgattg tattaannat 600
tt 602

<210> 1565
<211> 473
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 214, 291, 295, 345, 375, 442
<223> n = A,T,C or G

<400> 1565
ctagtccagt gtggtggaat tcatccaggg ggctacccct ggctctctgt tgccagtggg 60
catcatcgca gtgggtgtct tctcttccct ggtggctttt gtgggctgct gcggggcctg 120
caaggagaac tattgtctta tgatcacgtt tgccatcttt ctgtctctta tcatgttggt 180
ggaggtggcc gcagccattg ctggctatgt gtttagagat aaggtgatgt cagagtttaa 240
taacaacttc cggcagcaga tggagaatta cccgaaaaac aaccacactg nttcnatcct 300
ggacaggatg caggcagatt ttaagtgtg tggggctgct aactncacag attgggagaa 360
aatcccttcc atgtngaaga accgagtccc cgactcctgc tgcattaatg ttactgtggg 420
ctgtgggatt aatttcaacg anaaggcgat ccataaggag ggctgtgtgg aga 473

<210> 1566
<211> 53
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 15, 24, 28
<223> n = A,T,C or G

<400> 1566
ctagttatta atagnaatca attncggngt cattagttca tagcccatat atg 53

<210> 1567
 <211> 136
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 91, 104, 117, 126
 <223> n = A,T,C or G

<400> 1567
 ttattgattt ttttttttca ctttcccat cacactcaca cgcacgctca cactttttat 60
 ttgccataat gaaccgtcca gccctgtgg ngatctccta tganaacatg cgttttntga 120
 taactnacaa ccctac 136

<210> 1568
 <211> 192
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4, 16, 17, 48, 52, 57, 82, 91, 98, 109, 123, 151, 155, 162,
 166, 168
 <223> n = A,T,C or G

<400> 1568
 ttgngtctgt gtgagnnggt tgaccttccat ccattccctg gtccttcnct tnccttnccg 60
 aggcacagag agacagggca gnatccacgt ncccatntg gaggcagana aaagagaaaag 120
 tgntttatat acggtactta ttttaatatcc nttntaatt anaaantnaa acagttaatt 180
 taattaaaga gt 192

<210> 1569
 <211> 575
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 358, 505, 511, 513, 547
 <223> n = A,T,C or G

<400> 1569
 ctagttctgt cccccagga gacctggttg tgtctgtgtg agtggttgac cttcctccat 60
 cccctggtcc ttcccttccc ttcccgaggc acagagagac agggcaggat ccacgtgccc 120
 attgtggagg cagagaaaag agaaagtgtt ttatatacgg tacttattta atatcccttt 180
 ttaattagaa attaaaacag ttaatttaat taaagagtag ggtttttttt cagtattctt 240
 ggtaatatatt taatttcaac tatattatgag atgtatcttt tgctctctct tgctctctta 300
 ttgtgaccgg tttttgtata taaaattcat gtttccaatc tctctctccc tgatcgngga 360
 cagtcactag cttatcttga acagatatat aattttgcta acactcagct ctgccctccc 420
 cgatcccttg gctccccagc acacattcct ttgaaataag gtttcaatat acatctacat 480
 actatatata tatttggaac cttgnatttg ngngtatata tatatatata tgtttatgta 540
 tatatgngat tctgataaaa tagacattgc tattc 575

<210> 1570
 <211> 392
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 10, 114, 374
 <223> n = A,T,C or G

<400> 1570
 ctagtccagn gtggtggaat tccgccgcca tcatgggtcg catgcatgct cccgggaagg 60
 gcctgtccca gtcggcttta ccctatcgac gcagcgtccc cacttggttg aagntgacat 120
 ctgacgacgt gaaggagcag atttaciaaac tggccaagaa gggccttact ccttcacaga 180
 tcggtgtaat cctgagagat tcacatgggtg ttgcacaagt acgttttgtg acaggcaata 240
 aaattttaag aattcttaag tctaagggac ttgctcctga tcttcctgaa gatctctacc 300
 atttaattaa gaaagcagtt gctgttcgaa agcatcttga gaggaacaga aaggataagg 360
 atgctaaatt ccgnetgatt ctaatagaga gc 392

<210> 1571
 <211> 390
 <212> DNA
 <213> Homo sapiens

<400> 1571
 gaaggacgtt tgtgttgga ggcctgggtat ccccggcact cctggatccc acggcctgcc 60
 aggcagggac gggagagatg gtgtcaaagg agaccctggc cctccgggcc ccatgggtcc 120
 acctggagaa atgccatgtc ctccctggaaa tgatgggctg cctggagccc ctggtatccc 180
 tggagagtgt ggagagaagg gggagcctgg cgagaggggc cctccagggc ttccagctca 240
 tctagatgag gagctccaag ccacactcca cgactttaga catcaaatcc tgcagacaag 300
 gggagccctc agtctgcagg gctccataat gacagtagga gagaaggctt tctccagcaa 360
 tgggcagtcc atcacttttg atgccattca 390

<210> 1572
 <211> 383
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 368
 <223> n = A,T,C or G

<400> 1572
 ctgcagcttc tgctgctgag gccgggattg ctacgactgg gactgaagggt gaaagaggtg 60
 gaatccgaag tcttgggact gcgggatgct aaacattgaa agctgggtgt aggcactgca 120
 gggagagtgt ggaggtctga cagggttagga atatgtggga gggctgggct aggaatggcc 180
 ttggaggctg gcctgtgtgg atatggcacc aattctaccc tgctcctctt ttccttttcc 240
 cagactcaga cgatgccctg ctgaagatga ccatcagcca gcaagagttt ggccgcactg 300
 ggcttcctga cctaagcagt atgactgagg aagagcagat tgcttatgcc atgcagatgt 360
 ccctgcangg gagcagagtt tgg 383

<210> 1573
 <211> 149

<212> DNA
<213> Homo sapiens

<400> 1573
cctccagagc ctctctagtg gcagagcagc tcacactccc tccgctggga acgatggctt 60
ctgcctagta cctatccttg tgtttctgat gcagtggtag cattgggttca agttctctcc 120
tgctgtgggc agagttgctt cgatgttgg 149

<210> 1574
<211> 143
<212> DNA
<213> Homo sapiens

<400> 1574
ctgccaggct gaaaagaagc ctcagctccc acaccgccct cctcaccgcc cttcctcggg 60
agtcacttcc actggtggac cacgggcccc cagccctgtg tcggccttgt ctgtctcagc 120
tcaaccacag tctgacacca gag 143

<210> 1575
<211> 112
<212> DNA
<213> Homo sapiens

<400> 1575
ctgcattcac cctctttcag ggggtagagc cactatactt ctcatgtaga tcagccacat 60
tgtcactgga gactcggatc cagccatcct cccgcacgtg gtagagggtg ac 112

<210> 1576
<211> 198
<212> DNA
<213> Homo sapiens

<400> 1576
ccagtatgtc cccaggatta tgtttggtga cccatctctg acagtttagag ccgatatacac 60
tggaagatat tcaaatcgtc tctatgctta cgaacctgca gatacagctc tggtgcttga 120
caacatgaag aaagctctca agttgctgaa gactgaattg taaagaaaaa aaatctccag 180
gcccttctgt ctgtcagg 198

<210> 1577
<211> 444
<212> DNA
<213> Homo sapiens

<400> 1577
cctgcctgga gccccagatc accccttcct actacaccac ttctgacgct gtcattttcca 60
ctgagaccgt cttcattgtg gagatctccc tgacatgcaa gaacagggtc cagaacatgg 120
ctctctatgc tgacgtcggg ggaatacaat tccctgtcac tcgaggccag gatgtggggc 180
gtcatcaggt gtcttgagc ctggaccaca agagcgccca cgcaggcacc tatgagggtta 240
gattcttcca cgaggagtcc tacagcctcc tcaggaaggc tcagaggaat aacgaggaca 300
tttccatcat cccgcctctg tttacagtca gcgtggacca tcggggcact tggaacgggc 360
cctgggtgtc cactgagggtg ctggctgcgg cgatcggcct tgtgatctac tacttggcct 420
tcagtgcgaa gagccacatc cagg 444

<210> 1578

<211> 294
 <212> DNA
 <213> Homo sapiens

<400> 1578
 ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60
 ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120
 cctaccagcc agcacctcct tcagggttact tcatggcagc tatcccacag actcagaacc 180
 gtgctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
 ctcagggtgc cagacctcat ccattccaaa atatgcccgg tgctatccgc ccag 294

<210> 1579
 <211> 295
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 176, 181, 182, 248
 <223> n = A,T,C or G

<400> 1579
 ccacaaagcc attgtatgta gcttttagctc agcgcaaaga agagcgccag gctcacctca 60
 ctaaccagta tatgcagaga atggcaagtg tacgagctgt gcccaaccct gtaatcaacc 120
 cctaccagcc agcacctcct tcagggttact tcatggcagc tatcccacag actcanaacc 180
 nngctgcata ctatcctcct agccaaattg ctcaactaag accaagtccc cgctggactg 240
 ctcaggnggc cagacctcat ccattccaaa aatatgcccg gtgctatccg cccag 295

<210> 1580
 <211> 166
 <212> DNA
 <213> Homo sapiens

<400> 1580
 cttcttttatt ggggacatgt gggctggaac agcagatttc agctacatat atgaacaaat 60
 cctttattat tattataatt atttttttgc gtgaaagtgt tacatattct ttcacttgta 120
 tgtacagaga ggtttttctg aatatattat ttaagggtta aatcac 166

<210> 1581
 <211> 449
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 420
 <223> n = A,T,C or G

<400> 1581
 ctgaggcaac agaataaatg cagaggcatt acaatgaatc ccacttaata taaagaacta 60
 tacagaccaa cacttctcta caaaattttt ttttcctcat tgccagttaa atacagagtt 120
 ttactttcat agcttaacaa tgaagggtca tacactgaag ccaatacata tacctagcat 180
 ttcagtctaa gcttgtccac gtacatagct gaagtcaatt acaaggtttg gcctagaaat 240
 gctaggggaa cttcttttgta gtttttacag gtattaaact tcatcttgca cactgaagtc 300

atcatacata cagggcaaaa tcagagcttt tatatttgcg tttattcttc atttaacttt 360
 ttataacact actatagttt attaaaacaa aaaacaaaga gcaagtagtg agcatattan 420
 gattacagtc ctttcaactca ttcacacct 449

<210> 1582
 <211> 302
 <212> DNA
 <213> Homo sapiens

<400> 1582
 ccaatgggct ttgctgtagc ttgctgaaat caccaagcag gagagattta accagagggcg 60
 atgtgtccag tcaccagcat agagccatcc tctgtgtcac catccacacg cagggccttc 120
 tggcagacct catgcaatgc cctccatgtt aatattcatc agaaaatgga taattagggg 180
 ggccagcaaa aatatcaagg gtcaaatac gcacatttct gtttaggcca tctatggctt 240
 tcatctctc tgaagtcaac tggaattcaa acacctgcac gttctgtctg atgcgctgct 300
 ca 302

<210> 1583
 <211> 170
 <212> DNA
 <213> Homo sapiens

<400> 1583
 ttcttgctcc gtgggaacca cgagtgtgcc agcatcaacc gcatctatgg tttctacgat 60
 gagtgcaaga gacgctacaa catcaaactg tggaaaacct tcaactgactg cttcaactgc 120
 ctgcccacgc cggccatagt ggacgaaaag atcttctgct gccacggagg 170

<210> 1584
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1584
 ccagacgtgg tggctcacac ctgcagtccc agcaccttag gaggccgagg caggaggatc 60
 cttgagggtca ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120
 aatacaaaaa attagccaag tgtggtggca tatgcctgta atcccaacta ctcagaaggc 180
 cgaggcagga gaattacttg aacgcaggag aatcactgca gcccaggagg cagagggttg 240
 agtgagccga gattgcacca ctgcactcca gcctgggtga cagagcaaga ctccatctca 300
 gtaaataaat aaataaataa aaagcgctgc agtagctgtg gcctcaccct gaagtcagcg 360
 ggcccagg 368

<210> 1585
 <211> 392
 <212> DNA
 <213> Homo sapiens

<400> 1585
 caacctctc tcctcagcgc ttcttctttc ttggtttgat cctgactgct gtcattggcgt 60
 gccctctgga gaaggccctg gatgtgatgg tgtccacctt ccacaagtac tcgggcaaag 120
 agggtgacaa gttcaagctc aacaagtcag aactaaagga gctgctgacc cgggagctgc 180
 ccagcttctt ggggaaaagg acagatgaag ctgctttcca gaagctgatg agcaacttgg 240
 acagcaacag ggacaacgag gtggacttct aagagtactg tgtcttctctg tcctgcatcg 300
 ccatgatgtg taacgaattc tttgaaggct tcccagataa gcagcccagg aagaaatgaa 360
 aactcctctg atgtgggttg ggggtctgcc ag 392

<210> 1586
 <211> 158
 <212> DNA
 <213> Homo sapiens

<400> 1586
 cctccactgc cagcctatgg ttgttcgcca ccaagccagg agtgctgcac cgcccagtgg 60
 tccccctcgg gctccaggcc cccactgaga ccctctcgga ggcagaagca cttcaccctt 120
 cagagtccta caagtccaac cagtggacct ggaattgg 158

<210> 1587
 <211> 85
 <212> DNA
 <213> Homo sapiens

<400> 1587
 ccaatgtaca tgggtggacta tgccggcctg aacgtgcagc tcccgggacc tcttaattac 60
 tagacctcag tactgaatca ggacc 85

<210> 1588
 <211> 369
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 363
 <223> n = A,T,C or G

<400> 1588
 ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaagggac ctggcaggca 60
 gggctggcag gcccctatgg cctgtttcca gcagatgaca agcccaggtc agggtagagc 120
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180
 cacgctcagg gccgggaggt ggggggttagg gtggggacgg cgccaacatc gtgtaaaaaa 240
 gtgtcccagt tcccatagca aagagagctg tgaccgggtg ttcagagctt ctccagtaca 300
 aggggggaaag ccgcccggcg ggggcggcgg gcagggacat catttggttt cctggtgctg 360
 tcngtccga 369

<210> 1589
 <211> 361
 <212> DNA
 <213> Homo sapiens

<400> 1589
 ctgtagcttc tgtgggactt ccaactgctca ggcgtcagge tcagatagct gctggccgcg 60
 tacttggtgt tgctttgttt ggaggggtgt gtggtctcca ctcccgctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
 agtgtggcct tgttggtctg aagctcctca gaggagggcg ggaacagagt gaccgagggg 240
 gcagccttgg gctgacccag gacggtcagc ttggtccctc cgccgaacag tacaaaggga 300
 ctgaggctgt tatcatagga ctggcagtaa taatcagcct catcttcagc ctggagccca 360
 g 361

<210> 1590

<211> 434
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 397
 <223> n = A,T,C or G

<400> 1590
 ctggagaagg tgtgcagggg aaaccctgct gatgtcaccg aggccagggt gtctttctac 60
 tcgggacact cttccttttg gatgtactgc atggtgttct tgggtgctgta tgtgcaggca 120
 cgactctgtt ggaagtgggc acggctgctg cgacccacag tccagttctt cctgggtggc 180
 tttgccctct acgtgggcta caccgcgtg tctgattaca aacaccactg gagcgatgtc 240
 cttgtttggc tcctgcaggg ggcactggtg gctgccctca ctgtctgcta catctcagac 300
 ttcttcaaag cccgaccccc acagcactgt ctgaaggagg aggagctgga acggaagccc 360
 agcctgtcac tgacgttgac cctggggcgag gctgacnaca accactatgg ataccgcac 420
 tctcctcct gagg 434

<210> 1591
 <211> 439
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 409
 <223> n = A,T,C or G

<400> 1591
 gctttcgcca gaaaatgttg catgtcaaac aatatgtgat ccatactgtg tgcgtcctt 60
 ggggggtttat ttgactttgt cacaatgaca gccaacagtg agactgataa gcctgtaaaa 120
 ataaaaaaaaat aagactaatc aaatagacat ggcattttta tctcaaagtg caaaatcatt 180
 taactgaaaa tgacggcatt gagaaattcc agtgggttaa aatgaatcaa aacttcatta 240
 cgcaggcagt ggaagtgtgt tgaaagattt accaggggtg tcaagtttta gacactcaga 300
 aaggcaccat tctagccatc ttgattggat aacatgtata tacttatgtc cctacgatat 360
 tcaaaagata atactgtttt agtacaaaac aatcaaacaa ggcaaagant caaaaccaag 420
 ccaacccaaa tatccccag 439

<210> 1592
 <211> 74
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 53
 <223> n = A,T,C or G

<400> 1592
 tttttttttt taatgttcac agtccttgc ttttttccat ttgttcacac acnctttaaa 60
 aaaaaaaaaa aaaa 74

<210> 1593

<211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1593
 ccatccgaag caagattgca gatggcagtg tgaagagaga agacatatc tacacttcaa 60
 agctttggtg caattcccat cgaccagagt tggcccgacc agccttggaa aggtcactga 120
 aaaatcttca attggattat gttgacctct accttattca ttttccagtg tctgtaaagc 180
 caggtgagga agtgatccca aaagatgaaa atggaaaaat actatttgac acagtggatc 240
 tctgtgccac gtgggaggcc gtggagaagt gtaaagatgc aggattgg 288

<210> 1594
 <211> 455
 <212> DNA
 <213> Homo sapiens

<400> 1594
 ccacacagac tcaccaagcc acagacttgt cttccacaag cacgttctta ccttagccac 60
 gaagtgacca agccacacgt actaaagggt gaactcaaag atatgtacag ggtattaaac 120
 aaataccaag gggaacagtt aacttcaata caagggtcaaa atcagcaaca agttctacaa 180
 tccagtgtg atatacagata caagcttcaa ggacaatttc ttttcgaagg cttattccag 240
 tttcgtgagg ctagcatgag gtgtgtgcat ttgccagggg caaattttcta ttctcaatta 300
 acccatgcag caaatgctac gcatctgctg agtccgttta gaagcatttg cgggtggacga 360
 tggagggggc cgactcgctg tactcctgct tgctaatacca catctgctgg aagggtggaca 420
 gtgaggccag gatggagcca ccgatccaca ccgag 455

<210> 1595
 <211> 367
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 360
 <223> n = A,T,C or G

<400> 1595
 ccaggctacc ttcccactgg agacaggcag ggggacaggt gctaagggac ctggcaggca 60
 gggctggcag gccccatggc gcctgttcca gcagatgaca agcccaggtc agggtagagc 120
 gggcaggagg ggggacgagg gctcccacaa catgattttg tgtaaaatat ggcagcgaca 180
 cacgctcagg gccgggagggt ggggggttagg gtggggacgg cggcaacatc gtgtaaaaaa 240
 gtgtcccagt tcccatagca aagagagctg tgaccgggtg ttcgagcttc tccagtacaa 300
 gggggaaaagc cgcccggcgg gggcggcggg cagggacatc atttggtttc ctggtgctgn 360
 cagtccg 367

<210> 1596
 <211> 193
 <212> DNA
 <213> Homo sapiens

<400> 1596
 ctgtttcttca tgcgcctgggt ggggaagacg cccattgaga cactgatcag agacatgctg 60
 ctgtcgggga gtaccttcaa ctggccctac ggctcgggcc agtgaccatg acggggccac 120
 gtgtgctgtg gccaggcctg cagacagacc tcaagggaca ggggaatgctg agggcccggg 180

aggcccctcg agg

193

<210> 1597

<211> 145

<212> DNA

<213> Homo sapiens

<400> 1597

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ccatgctgga tgttctgctg cttagacctg atctgctgcc aattaccagg ggcagggtcaa 60
ggatgacctt cttggatcca ggaacgctaa catagatcag taaggaatat tcaactcgaa 120
ggatgttgca gccaggata gaagg                                     145
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<210> 1598

<211> 445

<212> DNA

<213> Homo sapiens

<400> 1598

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ctgcctataa aactagactt ctgacgctgg gctccagctt cattctcaca ggatcatcatc 60
ctcatccggg agagcagttg tctgagcaac ctctaagtcg tgctcatact gtgctgccaa 120
agctgggtcc atgacaactt ctggtggggc gagagcaggc atggcaacaa atcccaagtt 180
aggggtctcca atgagcttcc tagcaagcca gaggaagggc ttttcaaagt tgtagttact 240
tttggcagaa atgtcgtagt actgaagatt cttctttcgg tgggaagacaa tggatttcgc 300
cttcactttc ctgtccttaa tatccacttt gttgccacac aacacaatgg ggatgttttc 360
acacactcgt accagatctc tatgccagtt aggcacattc ttgtaagtaa ctctcgatgt 420
tacatcaaac attatgatgg cacac                                     445
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<210> 1599

<211> 142

<212> DNA

<213> Homo sapiens

<400> 1599

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cctgccccag ggggaagcac ggacccgaga cgacggcgat gaggaagggc tcctgacaca 60
cagcgaggaa gagctggaac acagccagga cacagacgcg gatgatgggg ccttgacagta 120
agcagcctga caggagcaat gg                                     142
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<210> 1600

<211> 297

<212> DNA

<213> Homo sapiens

<400> 1600

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cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccggt 120
caaggagaag gtattctaca gctgatgag ggagagcggc tacatgcaca tccagtgcac 180
caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtcttg ctgcctatat 240
tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg    297
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<210> 1601

<211> 289

<212> DNA

<213> Homo sapiens

<400> 1601
 ctggagatga tcctcaacaa gccagggctc aagtacaagc ctgtctgcaa ccaggtggaa 60
 tgtcatcctt acttcaacca gagaaaactg ctggatttct gcaagtcaaa agacattggt 120
 ctggttgcct atagtgtctt gggatccac cgagaagaac catgggtgga cccgaactcc 180
 ccggtgctct tggaggaccc agtcctttgt gcctcggcaa aaaagcacia gcgaacccca 240
 gccctgattg ccctgcgcta ccagctacag cgtgggggtt tggtcctgg 289

<210> 1602
 <211> 398
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 274, 312, 329, 332, 368
 <223> n = A,T,C or G

<400> 1602
 gggagggcag agggagaatg ggaagatcag gaagctctag attacttcag tgataaagag 60
 tctggaaaac aaaagtttaa tgattcagaa ggggatgaca cagaggagac agaggattat 120
 agacagttca ggaagtcagt cctcgcagat cagggtaaaa gttttgctac tgcattctac 180
 cggaatactg agaaggaagg actcaagtac aagtccaaag tttcactgaa aggcaataga 240
 gaaagtgatg gatttagaga agaaaaaaat tatnaactta aagagactgg atatgtagtg 300
 gaaaggccta gnactacaaa agataagcnc anagaagaag acaaaaattc tgaaagaata 360
 acagtaanga aagaaactca gtcacctgag caggtaaa 398

<210> 1603
 <211> 438
 <212> DNA
 <213> Homo sapiens

<400> 1603
 ctggtgatct gctttcttac cctaactctt gacaaatgag tcgtctacta ttttaaagag 60
 tctggaggtc tctgactctg ccataacaat aacctgctgt taatttataa cacagatttt 120
 tgtttggaag agccttattt gaaatacact ttgattcatt ttcttaaata tttatattct 180
 tttcttgctt acttcagggt tggtagctta gttggaagtg ccagcacctg gcacctattc 240
 atatagaaca ggctgtactc aagacaactt ctagcattta ctttaagact tatataattt 300
 atttctattt tgtgtgtact atagtcttgt gcatatgtag ttgaacacac agtgaaatat 360
 atgtctctct ttgtggatgt gcggcctaaa aatttgaatg tctggtgaga gagagccatg 420
 tgtataggtc agagaaaa 438

<210> 1604
 <211> 297
 <212> DNA
 <213> Homo sapiens

<400> 1604
 cctgcacttg aacatggctt tggttttaag caacttctct accctgaccc tcctcctggg 60
 acagcgtttc gggagggttc ttggcctcac tgagagggat gtggagctgc tgtaccccg 120
 caaggagaag gtattctaca gcctgatgag ggagagcggc tacatgcaca tccagtgcac 180
 caagcctgac accgtaggct ctgctctgaa tgactctcct gtgggtcttg ctgcctatat 240
 tctagagaag ttttccacct ggaccaatac ggaattccga tacctggagg atggagg 297

<210> 1605

<211> 451
 <212> DNA
 <213> Homo sapiens

<400> 1605
 ggaaaggcta ttgttttctcg acagtttgtg gaaatgaccc gaactcggat tgaggggctta 60
 ttagcagctt ttccaaagct catgaacact ggaaaacaac atacgtttgt tgaaacagag 120
 agtgtaagat atgtctacca gcctatggag aaactgtata tggtagctgat cactaccaaa 180
 aacagcaaca ttttagaaga tttggagacc ctaaggctct tctcaagagt gatccctgaa 240
 tattgccgag ccttagaaga gaatgaaata tctgagcact gttttgattt gattttttgct 300
 tttgatgaaa ttgtcgcact gggataccgg gagaatgtta acttggcaca gatcagaacc 360
 ttcacagaaa tggattctca tgaggagaag gtgttcagag ccgtcagaga gactcaagaa 420
 cgtgaagcta aggctgagat gcgtcgtaaa g 451

<210> 1606
 <211> 272
 <212> DNA
 <213> Homo sapiens

<400> 1606
 ccggagccca cgggtggcat ggctgccaga gcgctctgca tgctggggct ggtcctggcc 60
 ttgctgtcct ccagctctgc tgaggagtag gtgggcctgt ctgcaaacca gtgtgccgtg 120
 ccagccaagg acaggggtga ctgcggctac ccccatgtca cccccaagga gtgcaacaac 180
 cggggctgct gctttgactc caggatccct ggagtgcctt ggtgtttcaa gcccctgcag 240
 gaagcagaat gcaccttctg aggcacctcc ag 272

<210> 1607
 <211> 444
 <212> DNA
 <213> Homo sapiens

<400> 1607
 ccaggctggg ctcaaactcc tcacctcaac tgatccgccc accttggcct cccaaagtgc 60
 tgggattata ggtgtgagcc accgtgcccc aagttaagta tttttgatca agtgttttgt 120
 cttttgtgca aggcatttgt ggctctgtca tagcagagga aaacaaaaca tgcctatcaa 180
 atgaatcaag tccgacctct tctcatattg agcaactaga ggtctaggaa catttccct 240
 acctgtcatt ctcatctggc ataccagggtg tacatactcc ttcttattct cctctgttac 300
 caagatgttg gcccattgg gtttgagggtc acgaacttca caaactccaa actcttggac 360
 ctcaagtgtg aagggtgaggt catagcctag tgtggagaca tcattttcca gcagataaac 420
 cagaccttgg tagaagtggg aatc 444

<210> 1608
 <211> 189
 <212> DNA
 <213> Homo sapiens

<400> 1608
 caaaatccaa aacttctctt gaaaagttca gggaccgtcc aggggagatg gggaggagat 60
 atggagtgag tcacctgtct cagaagatgc cagcttctct ctccagggtg cttagtgtgc 120
 tttgccacc cctcactccc cagggagctc tggggacagc ttcctcgcac ccctgtccca 180
 cccacacag 189

<210> 1609
 <211> 426

<212> DNA
<213> Homo sapiens

<400> 1609
cttttggttat ccttagagga ctcaactggtt tctttttcata agcaaaaagt acctcttctt 60
aaagtgcact ttgcagacgt ttcactcctt ttccaataag cttgagtttag gagctttttac 120
cttgttagcag agcagtatta acacctagtt gggttcacctg gaaaacagag aggctgaccg 180
tggggctcac catgcggatg cgggtcacac ggaatgctgg agagatgtta tgtaatatgc 240
tgaggtggcg acctcagtgg agaaatgtaa agactgaatt gaattttaag ctaatgtgaa 300
atcagagaat gttgtaataa gtaaatgcct taagagtatt taaaatatgc ttccacattt 360
caaaatataa aatgtaacat gacaagagat tttgcgtttg acattgtgtc tgggaaggaa 420
gggcca 426

<210> 1610
<211> 447
<212> DNA
<213> Homo sapiens

<400> 1610
cagggctata gtgcgctatg ttgatctggt gttcatgcta agttccgcat caatatgggtg 60
acttcttggg agtgggggac caccagggtg cctaaggagg ggtgaacctg cctacgttgg 120
aaatagagct ggtcaaaaact cctgtgctca tcagtagtag aattgcacct gtgaatagcc 180
accgccctcc agcatgggca acatagcaag accctgcctc ttaagataaa aattggaaaa 240
cactggttagg aaaaaaaggc tgtttggtct aaataagtct ggattgggta taaatgacac 300
aaaactatca tgaatttgaa agcatttcta atttcttgaa agtctgaaaa agtttaaaca 360
gaatttttagc tgaaaagtcc tgaaagacat ttgaaaaaaa acagcaagaa cacttaaaac 420
tattcaaggt ttgggctggg cacagtg 447

<210> 1611
<211> 238
<212> DNA
<213> Homo sapiens

<400> 1611
ccaccggggg tgacctctct cgctagcagg gccacccag ctcaactccc gcgtcttcca 60
tcccctctag gattcccatt gtcccctact ccagcactag gcaggcacc ccagcccact 120
gcgactccca ccacgaagga cccagccct ctctcagcca acacggcccc gccaccgtc 180
tcagacatcg tgcttcttct ggtgggccag gagtctctcc tcgtcgtcga aggtctgg 238

<210> 1612
<211> 293
<212> DNA
<213> Homo sapiens

<400> 1612
ctgctgcttg tctcctcggg agagggtttc ccactctgag cgggtgggaa ggcaatgcc 60
aacatccggg aaaaataaaa ccactgtctc cacatgagct ggaactgtac gcccttgtg 120
ggtctcctca gggcgatggt agcgaatctc tgcaaaacgg taccattgtg tgcacacact 180
tagatcaatg cctgtcagag ccttacaaca acgaatagca gtcttaatac acacagaggg 240
atctttttct gggctctggc catccaacga aggagaccag tggcccccaa tgg 293

<210> 1613
<211> 224
<212> DNA

<213> Homo sapiens

<400> 1613

```
ctggattgac cccaaccaag gctgcaacct ggatgccatc aaagtcttct gcaacatgga 60
gactgggtgag acctgctgtg accccactca gcccagtgtg gcccagaaga actggtacat 120
cagcaagaac cccaaggaca agaggcatgt ctgggttcggc gagagcatga ccgatggatt 180
ccagttcgag tatggcggcc agggctccga ctctgccgat gtgg 224
```

<210> 1614

<211> 439

<212> DNA

<213> Homo sapiens

<400> 1614

```
ctccaccctg gcgatggctc cctggtccta ctttctctct caaactggct ttttctcatt 60
cctttgactc cgccagactt cctcgcccc atgacctggt gttgtgtctg atcaccccaa 120
cattcctggc tgcccaatgt ggggcaatga agaccccagt gaaggaatgc tagagtgtgt 180
gaaagtggag gacgcatcgt caaaggacac ctgaggacgt ctcaaagaag ctcggcggga 240
gagctgagcg ctcggaagaa ccaagaatca tctcttttga aaaatcgatt catcaaatga 300
atcttcggcc acaactgtt caagaaggat tcaaatatca caggttccaa gaagtaaagc 360
tttggaggtc acaaaattag caatagaagc tgggttcgcg catatagatt ctgctcattt 420
atacaaataa tgaggagca 439
```

<210> 1615

<211> 237

<212> DNA

<213> Homo sapiens

<400> 1615

```
aggcactcct ggaagtgggt cagtcagggt gcaaaaacat tgaacttgct gtcattgaggc 60
gagatcaatc cctcaagatt tttaatcctg aagaaattga gaagtatgtt gctgaaattg 120
aaaaagaaaa agaagaaaac gaaaagaaga aacaaaagaa agcatcatga tgaataaaat 180
gtcttttgctt gtaattttta aattcatatc aatcatggat gagtctcgat gtgtagg 237
```

<210> 1616

<211> 266

<212> DNA

<213> Homo sapiens

<400> 1616

```
ctgggctcta gtttcatttc atctgtcatt ctcaggtaac agggacacat gtccaagtgt 60
tggtcccggt ggcatgattg tagctttgtt gataggcatt gcatcttttg tgtaatatgc 120
aataatggca tgaccagatt catgatatgc tgtgatgggt ttgtttttgt tatcaatttc 180
cacacttctt ctttcaggcc ccattagaat tttgtctttg gaaaactcca gtccttcat 240
ggtaaccatt tcttttccat caacag 266
```

<210> 1617

<211> 185

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 62

<223> n = A,T,C or G

<400> 1617

```
ccatggctag gtttatagat agttgggtgg ttggtgtaaa tgagtgaggc aggagtccga 60
gnaggttagt tgtggcaata aaaatgatta aggatactag tataagagat caggttcgtc 120
ctttagtgtt gtgtatgggt atcatttggt ttgagggttag tttgattagt cattgttggg 180
tggtg                                           185
```

<210> 1618

<211> 354

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 201, 214, 225, 230, 232, 241, 245, 249, 278

<223> n = A,T,C or G

<400> 1618

```
ctgttaacag ataagtttaa cttgcatctg cagtattgca tgttagggat aagtgcttat 60
ttttaagagc tgtggagttc ttaaataatca accatggcac tttctcctga ccccttccct 120
aggggatttc aggattgaga aattttttcca tcgagccttt ttaaaattgt aggacttggt 180
cctgtgggct tcagtgatgg ngatagtaca catntcactc agagngcatn tntgcatctt 240
ntaanatana tttcttaaaa gcctctaaag tgatcagntg ccttgatgcc aactaaggaa 300
atthgttttag cattgaatct ctgaaggctc tatgaaagga atagcatgat gtgc       354
```

<210> 1619

<211> 170

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 145, 146

<223> n = A,T,C or G

<400> 1619

```
ctgtgctgtg gagagaagct gatgttttgg tgtattgtca gccatcgctc tgggactcgg 60
agactatggc ctgcctccc caccctcctc ttggaattac aagccctggg gtttgaagct 120
gactttatag ctgcaagtgt atctnncttt tatctggtgc ctctcaaac           170
```

<210> 1620

<211> 386

<212> DNA

<213> Homo sapiens

<400> 1620

```
cctgttgatt gcatactgta gaagatttga tgttcagact gggtcttctt acatatacta 60
tgtttcgtct acagttggta aatttttgggt tttctttgta ttaaattgtt aattgtattg 120
tctggaggaa aagacagagg tctaaaaata aagaaggagt acagtttggg catgggtgggt 180
cacccttgga gtcctagcac tttggggggcc aaggcaggca gattgcttga gcccaggagt 240
tctagatgag cctgggcaac atagtggagac cccatctcta aaaaaacagt tttagggccca 300
ggcacagtgg ctcacacctg taagcccagc actttgggag gccgaggcag gcagatcata 360
agggcaagag attgagacca tctctgg                                           386
```

<210> 1621
 <211> 346
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 267
 <223> n = A,T,C or G

<400> 1621
 ccaattctgc ccgttccccg tgggccaaca acactggggt tgtatgcgtc tggaaccctg 60
 tgatagtctt cggcttgcca gcctggccca ccacatccac tgcctggccc acacggacag 120
 acactggcaa tggccgcagc tcctcatcaa acgtaaccag cattcggggc tgcattggcag 180
 ccaccagccc atacaatata tagtgtgatt tgcctagaat aatgtttcga acatccagga 240
 aagagacaag cacagtgagc agtccancca cggccacctg gctcataagc tgccggctgc 300
 tgtggtaggg gcagagggta aggggtgccct tccctaaatg tgtcag 346

<210> 1622
 <211> 366
 <212> DNA
 <213> Homo sapiens

<400> 1622
 ggaagtttgt gctctctgcg tggctaagtt tttcacctac taggacgggg gtgggggtggg 60
 gagaacaggt gtccttctaa aatacagcac aagctacagc ctgcgtccag ccataaccca 120
 ggagtaacat cagaaacagg tgagaatgac cactttaact caccggggccc gtcgcactga 180
 aataagcaag aactctgaaa agaagatgga aagtgaggaa gacagtaatt gggagaaaag 240
 tccagacaat gaagattctg gagactctaa ggatatccgc cttactctta tggaagaagt 300
 attgcttctg ggactaaaag ataaagaggg gtacacatct ttctggaatg actgcatatc 360
 atcagg 366

<210> 1623
 <211> 165
 <212> DNA
 <213> Homo sapiens

<400> 1623
 ctgttgattg gctgtgacac tgctttgtgt catcttctta ccatgatcaa aggcgaagga 60
 agggatctct tttgggacat tgtgattggt ttagcagaga gagaaagaga tgaaatacac 120
 ttcggttttc tcttaaaaga tgcattgtatc atacagtgtc ttaag 165

<210> 1624
 <211> 227
 <212> DNA
 <213> Homo sapiens

<400> 1624
 ccaatgcccg gagcaggccc tctttccatc ccctgtcgga tgagctgggc aactatgtca 60
 acaaacggaa taccacgtgg caagccgggc acaacttcta caacgtggac atgagctact 120
 tgaagaggct atgtggtacc ttctgggtg ggcccaagcc accccagaga gttatgttta 180
 ccgaggacct gaagctgcct gcaagcttcg atgcacggga acaatgg 227

<210> 1625
 <211> 373
 <212> DNA
 <213> Homo sapiens

<400> 1625
 ctgtagcttt tgtgggactt ccaactgetca ggcgtcaggc tcaggtagct gctggccgcg 60
 tacttggtgt tgctttgttt ggagggtgtg gtggtctcca ctcccgcctt gacggggctg 120
 ctatctgcct tccaggccac tgtcacggct cccgggtaga agtcacttat gagacacacc 180
 agtgtggcct tgttggcttg aagctcctca gaggagggtg ggaacagagt gaccgagggg 240
 gcagccttgg gctgacctag gacggtcagt ttggtccctc cgccgaacac ccgaagataa 300
 ttagtgctgt ctgttgagta acaatagtag tcaccttcat cttccacctg ggccccagtg 360
 atggtcaagg tgg 373

<210> 1626
 <211> 367
 <212> DNA
 <213> Homo sapiens

<400> 1626
 ccagacgtgg tggctcacac ctgcaatccc agcaccttag gaggccgagg caggaggatc 60
 cttgaggtea ggagttcgag accagcctcg ccaacatggt gaaaccccat ttctactaaa 120
 aatacaaaaa ttagccaagt gtggtggcat atgcctgtaa tcccaactac tcagaaggcc 180
 gaggcaggag aattacttga acgcaggaga atcactgcag ccctggaggc agagggttgc 240
 gtgagccgag attgcaccac tgtactccag cctgggtgac agagcaagac tccatctcag 300
 taaataaata aataaataaa aagcgctgca gtagctgtgg cctcaccctg aagtcagcgg 360
 gcccagg 367

<210> 1627
 <211> 424
 <212> DNA
 <213> Homo sapiens

<400> 1627
 ctggataagg acatcaatac cttctctatg cgtgtcaggg tgtggtacgg gtatcacttt 60
 ccggagctgg tgaagatcat caacgacaat gccacatact gccgtcttgc ccagtttatt 120
 ggaaaccgaa gggaactgaa tgaggacaag ctggagaagc tggaggagct gacaatggat 180
 ggggccaaagg ctaaggctat tctggatgcc tcacggtcct ccatgggcat ggacatatct 240
 gccattgact tgataaacat cgagagcttc tccagtcgtg tgggtgtcttt atctgaatac 300
 cgccagagcc tacacactta cctgcgctcc aagatgagcc aagtagcccc cagcctgtca 360
 gccctaattg gggaagcggg aggtgcacgt ctcatcgcac atgctggcag cctcaccaac 420
 ctgg 424

<210> 1628
 <211> 314
 <212> DNA
 <213> Homo sapiens

<400> 1628
 tcgactgtta tagcttagaa agcaacacta ctactatgag actataaaac attaaactat 60
 tttaagaaaa ccacgctgtg gaaaaatgga gccatttttg tcaaaaagtg gctcaaagca 120
 caaaactgct cagatgttca agagtcctag gagtctgggc tgcacagtat taaggggtga 180
 gaggagaccg acagcctgtt tgaatcaggc ttgtgagccc agctcatctg acaacttcaa 240
 agagcttctc tgccatataa ttccaccgtt tagcataaga caccacttta cgctatttac 300

aagtctcctt ttgg

314

<210> 1629

<211> 393

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 284

<223> n = A,T,C or G

<400> 1629

```
ctggaccagc accccattga cgggtacctc tcccacaccg agctggctcc actgcgtgct 60
cccctcatcc ccatggagca ttgcaccacc cgctttttcg agacctgtga cctggacaat 120
gacaagtaca tcgccctgga tgagtgggcc ggctgcttcg gcatcaagca gaaggatata 180
gacaaggatc ttgtgatcta aatccactcc ttccacagta ccggattctc tctttaaccc 240
tccccttcgt gttttccccc aatgttttaa atgtttggat ggtntggtgt tctgcctgga 300
gacaaagggtg ctaacataga tttaagttga ataacattaa cggtgctaaa aaatgaaaaa 360
ttctaaccce agacatgaca ttcttagctg taa 393
```

<210> 1630

<211> 317

<212> DNA

<213> Homo sapiens

<400> 1630

```
ctgcaagaat atcagaaatc aatacaaaca agtattgaca ggtgttacag acatgcaaaa 60
tattccttcaa tgcaacgaat ttttaagaaa tcagctagcc tatattaatc agatgtttta 120
ggtcaaacca agtttccatc tcgggctcag tgaaatagta ttaactcatt gagtctcctt 180
tccccagga atgttgggaa tggcagaaca gaaagagcta tcaactccta aattctttta 240
tgcgagtggt actccaacac ttattttact tggtttactt ggaatgtatg agaggaaact 300
gatgtttttt acaatgg 317
```

<210> 1631

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1631

```
ccttaggcaa gtcaccttac ttatctaaga ctgtttcccc acctggaaga tgccctacaa 60
gcctcctgtg gctgtgttta gaaagcatgc ccggcctttc ttgacagcca gccaccccag 120
atgatggcag ggcaaggaag actgttagga gtcagagtgc tcccctcagg tggaaggaaa 180
ctgggccaac tctactttgt aagccatagg gtgccaggta gcccggccac cctgagcctg 240
tgctccact gccccgcgt gg 262
```

<210> 1632

<211> 138

<212> DNA

<213> Homo sapiens

<400> 1632

```
ctggaattaa ttcttcgaca actccagacc gaccttcgga aggaaaaaca agacaaggcc 60
gttctccaag cagaagtgca gcacctgaga caggacaaca tgagactgca ggaggagtcc 120
```

cagaccgcga cagctcag

138

<210> 1633

<211> 192

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 17, 55, 80, 81, 94, 95, 106, 107

<223> n = A,T,C or G

<400> 1633

```
ccttgaaggg acctcanagc aaaggaagag acctgggtgt ggtgaggcat cccanggcac 60
ggaagggaacc ggttgtgctn ngggaatcca ctgnnccctc cttggnnaaa aaagcacaac 120
acatcataca tatTTaccag accagaagcg ctggcccca gttcccca cctgggtcggg 180
ggaacctcct gg 192
```

<210> 1634

<211> 447

<212> DNA

<213> Homo sapiens

<400> 1634

```
ctgcttttaa aggtctttaa tcaactcgaat accttgactt gagcttcaat cagatagcca 60
gactgccttc tggctctccct gtctctcttc taactctcta cttagacaac aataagatca 120
gcaacatccc tgatgagtat ttcaagcggt ttaatgcatt gcagtatctg cgtttatctc 180
acaacgaact ggctgatagt ggaataacctg gaaattcttt caatgtgtca tccctgggtt 240
agctggatct gtcctataac aagcttaaaa acataccaac tgtcaatgaa aaccttgaaa 300
actattacct ggaggtcaat caacttgaga agtttgacat aaagagcttc tgcaagatcc 360
tgggggccatt atcctactcc aagatcaagc atttgcgttt ggatggcaat cgcattctcag 420
aaaccagtct tccaccggat atgtatg 447
```

<210> 1635

<211> 364

<212> DNA

<213> Homo sapiens

<400> 1635

```
gtttttatttg agacataaaa acacatgtgt ttctattaca tagtgtgggg tttagggtcc 60
tggttttctaa gacaagactt tatttcaccc tgtatcacag cttcctggga aatgaattag 120
ggagcaagag acggcctggc aagaaaatca ttattgttgc tgggaagttg caaagaaagg 180
ggagagttta ttcaaattag tgtaacagag cccccaggat gaagagagtg gtgcagggaa 240
aaggtctaaa ttcttggtgt tgggtggggac actggcacat cccacagcaa ggactcagcc 300
ctcaacggcg gcggctgggt cttgggaggg gagtgggtggg agggtaaggg ctctcagct 360
ccct 364
```

<210> 1636

<211> 399

<212> DNA

<213> Homo sapiens

<400> 1636

```
ctggctggct agactgtttg tgcgccaaga ggatgggtcag cgctgctttc cagcctggct 60
```

```

ctgctggggc gctggcatct ggttcagttc caccattctc cctgctttct ttgccaagtg 120
tgatattcac ccaagggcac cagtctctat gctgagaggt gggatcaaag aagcttcggg 180
aagatgtgtc cgaactgctg gaggagcaga ggcgagctcg cttggctttc cgcagagggc 240
tagatgggtac ctccaggcca ggggtgtctc ctgttcccat gcttcgggtc actgggagag 300
ttctgggtggg ggggctagca gcctctggct caggacggtc aacaggactg gaagagtccc 360
agctccgagt tcgagagaca atgggaccag ggctctttt 399

```

```

<210> 1637
<211> 246
<212> DNA
<213> Homo sapiens

```

```

<400> 1637
ctgagctttc agcagataaa tcacagcaga aatagaatca ccctaggact ttcaatcaaa 60
agctggaagt ccaccttaca gaaagacaaa aagaaacccc tttttatatc ttaacaaagc 120
aatagctctc aagcagcaga gcattctcgag gaagaaagct tgcccggctc ccatcccatc 180
atgccagagc gtgcagtgct cacccttgac tacgctgggg aattgctgat tttttgaaaa 240
agcttg 246

```

```

<210> 1638
<211> 453
<212> DNA
<213> Homo sapiens

```

```

<400> 1638
ccaagagttc tccactgtga agactgaaag gacctgggtga catttcggca tcagtcctgt 60
taccacttgg aggtaacaga agcaggctcg tgcctcctt taattctacc acactacatg 120
actcgcaatt ggttctgaaa ttagaacgtt caccatcgta cttaaaatct taggggcatg 180
aagagtcagc tagaacaagg aaaaagaaag tcgcaggtag taggtaagta ggtgggcaca 240
tgaaaagcca agctgctctg tccaacacca gtgtacatgt gctttaacta aatgaactcc 300
agaggccaac agcagcagac ctgctcaatt caccttccaa atcagaacaa gacaaaaaag 360
ctcaggcttg agttgtcaac tatgcatagg ttccgccagt gatgaggagc tcgtaagcag 420
gatctctact ctttctgcac aacacgatgc aag 453

```

```

<210> 1639
<211> 197
<212> DNA
<213> Homo sapiens

```

```

<400> 1639
tttgctgttc gtgatatgag acagacagtt gcggtgggtg tcatcaaagc agtggacaag 60
aaggctgctg gagctggcaa ggtcaccaag tctgccaga aagctcagaa ggctaaatga 120
atattatccc taatacctgc caccctactc ttaatcagtg gtggaagaac ggtctcagaa 180
ctgtttgttt caattgg 197

```

```

<210> 1640
<211> 278
<212> DNA
<213> Homo sapiens

```

```

<400> 1640
ccagagcggg gagtcccacc acctcgaact ctgggaattc gagccacagc tctgccagta 60
ccccaagact cagcactagt ctgatgacct gctaattcac tgacagcata gggctgtctg 120
ttgtttttgc gcaagttggg gtgaacaaag ttcacaatat ctggtcgaat aggagccttg 180

```

aatacagcag gcaaagtgac attttttgcca gatgactccc ccttttcgga gtacaccgat 240
atcagtgggc gagcgcacgc catggcggac ctcggccg 278

<210> 1641
<211> 227
<212> DNA
<213> Homo sapiens

<400> 1641
ccattgttcc cgtgcatcga agcttgcagg cagcttcagg tcctcggtaa acataactct 60
ctgggggtggc ttggggccac ccaggaaggt accacatagc ctcttcaagt agctcatgtc 120
cacgttgtag aagttgtgcc cggcttgcca cgtgggtattc cgtttgttga catagttgac 180
cagctcatcc gacaggggat ggaaagaggg cctgctccgg gcattgg 227

<210> 1642
<211> 299
<212> DNA
<213> Homo sapiens

<400> 1642
ctgcacatca aggacatctt caggaagttc aggattgccg tagctaaact gaaaaccacc 60
atccatggac tctccaaacc aaacgtgttt cttctcagca ctagaatctg tccaccagtg 120
tttccgtgga acattcaaag gattggcact tatgcatgtt tccccagttt ccatattaca 180
gaataccttg atagcatcca atttgcatcc ttggtttaggg tcaaccagct attctccact 240
cttgagttca ggatggcaga atttcaggtc tctgcagttt ctacgagggt ttttacgag 299

<210> 1643
<211> 301
<212> DNA
<213> Homo sapiens

<400> 1643
ccaagggcta caatgagcag cgcacacagc agaacgtgca ggTTTTTgag ttccagttga 60
ctgcagagga catgaaagcc atagatggcc tagacagaaa tctccactat tttaacagtg 120
atagttttgc tagccaccct aattatccat attcagatga atattaacat ggagagcttt 180
gcctgatgtc taccagaagc cctgtgtgtg gatgggtgacg cagaggacgt ctctatgccg 240
gtgactggac atatcacctc tacttaaatc cgtcctgttt agcgacttca gtcaactaca 300
g 301

<210> 1644
<211> 365
<212> DNA
<213> Homo sapiens

<400> 1644
ctggtgagcg aaggatggga gcagagaaca gagctaaaac ccttggtttt cctttcccca 60
gatgtaaagc ctgctagctg gaactcacag aagattggaa caaaaagata ggagatggac 120
acctggggga ctgctccagc acgaaggga gcatgagca tcacacagca gggccattgc 180
aggggacagg tgctgtaatt cctgcccaga gaacttgaaa gcttacagtg tgctcacagg 240
aaggaatcgg ctgagctagt ccagaaattg ctgcatttcc catattactt agttctttat 300
tcatcctgtg gtaaagagtc acccttgttt tccgtatcta taaaactgaa agacttaaaa 360
tttac 365

<210> 1645

<211> 249
 <212> DNA
 <213> Homo sapiens

<400> 1645
 ctggtgctgg aactgcagaa agttaagcag gagaacatcc agctagcggc agacgcccgg 60
 tctgctcgtg cctatcgaga cgagctggat tccctgcggg agaaggcgaa ccgcgtggag 120
 aggctggagc tggagctgac ccgctgcaag gagaagctgc acgacgtgga cttctacaag 180
 gcccgcattg aggagctgag agaagataat atcattttta ttgaaaccaa ggccatgctg 240
 gaggaacag 249

<210> 1646
 <211> 433
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 398
 <223> n = A,T,C or G

<400> 1646
 ctgtggccgg attgatgggg cccccacttc ctagggctga aggcaagttg aaggaagcag 60
 caggagtacc ggaatgaaaa ccttggtttct caaaggactg ctgggttttg gagtacacag 120
 aaccgcgagat atctggcagc ccgctgttac tggaggtgac tgaaacacca gtgttgtatc 180
 catgagaccc atatccactc ggctgttgga aaggggtggc cgatgcattc aactgacat 240
 tcacaccatg ctgcttggaa gaggtaggag ccacagggaa cacagcaggc ccatactgga 300
 aggtgctggg gagggccggg acccctgtat agtatggcag gctgggtgtaa actgtagcca 360
 ggaggcagcg ccgggttcag gaatgtctgc tgcgtggnat ggtgagtctg cgtctggttt 420
 ctgttggggg tgg 433

<210> 1647
 <211> 451
 <212> DNA
 <213> Homo sapiens

<400> 1647
 ccagcttgca agcacgctgg caaatctctg tcaggctcag tccagagaag ccattagtca 60
 ttttagccag gaactccaag tccacatcct tggcaactgg ggacttgccg aggttagcct 120
 tgaggatggc aacacgggac ttctcatcag gaagtgggat gtagatgagc tgatcaagac 180
 ggccagggtct gaggatggca ggatcaatga tgtcaggccg gttggtagcg ccaatgatga 240
 acacattttt ttttgtggac atgccatcca tttctgtcag gatctgggtg atgactcggc 300
 cagcagcccc accaccatct ccaatgttac ctccacgagc cttggcaatc gaatccagct 360
 catcaaagaa tagcacacag ggggcagctt ggcgggcctt gtcaaagatt tctctgacat 420
 tggcctcaga ctccccaaac cacatggtga g 451

<210> 1648
 <211> 176
 <212> DNA
 <213> Homo sapiens

<400> 1648
 cctaaacgag gatttcagct tccattatgc ccaactccag tccaacatca ttgaggcgat 60
 taatgagctg ctagtggagc tggaaggagc aatggagaac attgcagccc aggctctgga 120

gcacattcac tccaatgagg tgatcatgac cattggcttc tcccgaacag tagagg 176

<210> 1649

<211> 435

<212> DNA

<213> Homo sapiens

<400> 1649

```
tgtggctgtg ccgttgggtcc tgtgcggtca cttagccaag atgcctgagg aaacccagac 60
ccaagaccaa ccgatggagg aggaggaggt tgagacgttc gcctttcagg cagaaattgc 120
ccagttgatg tcattgatca tcaatacttt ctactcgaac aaagagatct ttctgagaga 180
gctcatttca aattcatcag atgcattgga caaaatccgg tatgaaagct tgacagaccc 240
cagtaaatta gactctggga aagagctgca tattaacctt ataccgaaca aacaagatcg 300
aactctcact attgtggata ctggaattgg aatgaccaag gctgacttga tcaataacct 360
tggtactatc gccaaagtctg ggaccaaagc gttcatggaa gctttgcagg ctggtgcaga 420
tatctctatg attgg 435
```

<210> 1650

<211> 246

<212> DNA

<213> Homo sapiens

<400> 1650

```
ccatgtctgt attgtaactg gtaaaaggct tcaagtcaga ttgatgatca agaaaagtca 60
aaaccccagc ccaagattgg gaaagcaggt ggtgggtcca agctttttaa aaattattga 120
agctctccat cctgttctgt gagtgtgtct tctctttctc cttcacgtca tagccgtgac 180
ccaccgttca tctctgctct tgcgtaaaga tgaccgatgg agtccaaagc caagtggctt 240
caccag 246
```

<210> 1651

<211> 400

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 171, 172, 303, 344, 354, 357, 366, 367, 379, 391

<223> n = A,T,C or G

<400> 1651

```
cggcaagttc tcccaggaga aagccatggt cagttcgagc gccaaagaccg tgaagcccaa 60
tggcgagaag ccggacgagt tcgagtcagg catctcccag gctcttctgg agctggagat 120
gaactcggac ctcaaggctc agctcaggga gctgaatatt acggcagcta nngaaattga 180
agttgggtgt ggtcggaaag ctatcataat ctttgttccc gttcctcaac tgaaatcttt 240
ccagaaaatc caagtccggc tagtacgcga attggagaaa aagttcagtg ggaagcatgt 300
cgnctttatc ggctcagagg aggaattctg cctaagccaa ctcnaaaaag ccgnacnaaa 360
aattanngca aaaagcgtnc caggagccgt nctctgacag 400
```

<210> 1652

<211> 338

<212> DNA

<213> Homo sapiens

<400> 1652

```

ctgggggtgc ccatcttctg tgctctgtgg tacatatctg tgctcgccaaa gtagcgtgcc 60
cggtagacga agccttcctt ctgctgcttc tccttccagc agttgttccg gaggttggcg 120
atataatcat cttccacatt ccgctcgact gttttgagggc tggagcctgt gtactcttcg 180
gagaaagtgt ctccacata gtagacgaca cccaggtggg cagtgactcg cctgtggatg 240
tggcccacag acggtcttgg actcagactg tagggtggac tggagacat gagctggctg 300
agagctgaca cgagaatcag gatgaggata ggcacag 338

```

```

<210> 1653
<211> 167
<212> DNA
<213> Homo sapiens

```

```

<400> 1653
gcggtggagc cgccaccaa atgcagattt tcgtggaaac ccttacgggg aagaccatca 60
ccctcgaggt tgaacctctg gatacgatag aaaatgtaaa ggccaagatc caggataagg 120
aaggaattcc tcctgatcgg cagagactga tctttgctgg caagcag 167

```

```

<210> 1654
<211> 1034
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 88, 827, 882, 897, 905, 933, 945, 950, 955, 973, 976, 991,
999, 1010, 1022, 1023, 1024, 1033
<223> n = A,T,C or G

```

```

<400> 1654
atgcatgctc gagcgggcgc cagtgtgatg gatattctgca gaattcgccc ttagcgtggg 60
cgcgcccgag gtccaagagg gagataaanac aaacttctca aacaaaaaga aaagaaaaac 120
gaatgattca tctgctttaa tcagtgtgat taatgcagca cccattgccc cggaaccgt 180
ttctgctgta ctatctggat actaaaatgt tacggaagta gctctttgtt ctccctcact 240
ctgcccttag ttaatagaaa ttcagactcg ccaagtaagg ctttgtgcat agtgtcttca 300
tgctgcgtat agttgagcgc gttcttagca gttggcttca tggacagctc attagtgttt 360
tgacttttct taccagcgt taattgaatt cttgctttta gacaacttcc tttttgtagt 420
gggtgaacctt gccctttagt acagttcaag tgaatctgga taattgttca tctttgcttt 480
agcttagata ccatgtagtg gtctgtggct acaggaagct ggttctgtct gcttccacag 540
tctgcttaaa aaactgtctg acttcgtgaa tatagagacc aagtttacca cttctgatga 600
agagaccaat taagattcat tcctcattct gtttctttcc agtgggagaa gagtcccat 660
gaaataagat gaaactgatt ccatgcacta gtacatgtag gcttctccct tgcgcaaagc 720
ttaacaattt gtaggaaact ttgggtcttt ttgtcccaag aaaaaggaat gtcttgacag 780
gcttaaagct ttctgctccc ttgcacctta aaactcgaaa gttaggnaaa atccctttaa 840
agggcttttt ttaatagcca gaacttccca aaaggaatgg cnttttaggg aatttcntag 900
ccatngcttt ttaaatTTAA agaaattttt aanaaccttg cccnnggggn ggggncccg 960
tccaaaaagg gnggnaaaaa ttccccagcc nacccttng gggggggccn cgttttcctt 1020
tnnngggggg aanc 1034

```

```

<210> 1655
<211> 487
<212> DNA
<213> Homo sapiens

```

```

<400> 1655

```

```

atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc ttctgagcgg 60
ccgcccgggc aggtcctact cttctccgtc cattgtacta tctgcccgtg gtggggatgg 120
cagtaggata atatttgatg acttccgaga agcatattat tggctccgtc ataatactcc 180
agaggatgag aaggatcatgt cctgggtggga ttatggctat cagattacag ctatggcaaa 240
ccgaacaatt ttagtggaca ataacacatg gaataatacc catatttctc gagtagggca 300
ggcaatggcg tccacagagg aaaaagccta tgagatcatg agggagctcg atgtcagcta 360
tgtgctggtc atttttggag gacctcggcc gcgaccacgc taagggcgaa ttccagcaca 420
ctggcggccg ttactagtgg atccgagctc ggtaccaagc ttggcgtaat catggtcata 480
gctgtttt                                     487

```

```

<210> 1656
<211> 514
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 55
<223> n = A,T,C or G

```

```

<400> 1656
atgcatgctc gagcggccgc ccagtgtgat ggatattctgc agaattcgcc cttancgtgg 60
tcgcggccga ggtcctaccc ataataccaga gaggcttgcc cagaggagga ctacgtgggg 120
gacgtgccac cagaacccta cttggggggcg ggatgtcact ccgagggtcaa aacctgctcc 180
gaggtggacg agccgtagct ccccgaaatgg gcttaagaag aggtggtggt cgaggctcgtg 240
gaggtcctgg gagagggggc ctagggcgtg gagctatggg tcgtggcgga atcggtggta 300
gaggtcgggg tatgataggt cggggaagag ggggctttgg aggccgaggc cgaggccgtg 360
gacgagggag aggtgccctt gctcgccctg tattgaccaa ggagcagacc tgcccggggc 420
gccgctcgaa gggcgaattc cagcacactg gcggccgtta ctagtggatc cgagctcggg 480
accaagcttg gcgtaatcat ggtcatagct gttt                                     514

```

```

<210> 1657
<211> 605
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 78, 91
<223> n = A,T,C or G

```

```

<400> 1657
atgcatgctc gagcggccgc cagtgtgatg gatatctgca gaattcgccc ttctgagcgg 60
ccgcccgggc aggtccanac gctgacattg nttctgagtc cttaagcagg aaggatttga 120
aatcctggag cttggcagtc ttgctcttca cctctaagcc aatgttgacc ccttcatcta 180
taaagtccac aactctccgg aagtcatect cacggaactg tcgagaagtt aaggctgggg 240
ccccaagccg caggccgccc ggtgtgatgg cacttcggtc tccaggacag gtgttcttgt 300
tggcagtgat ggatacaagc tctagcaccg gctcagcccg agctccatcc aggcccttgg 360
gccgcaggtc caccagcacc aggtggttgt cagtaccacc tgataccagt gagtagcctc 420
gccctagcag ggcattctgc atggcccagc cattcttcag aacctgcagg gagtactccc 480
ggaacatggg ggtgcaggac ctcggccgcg accacgctaa gggcgaattc cagcacactg 540
gcggccgtta ctagtggatc cgagctcggg accaagcttg gcgtaatcat ggtcatagct 600
gtttc                                     605

```

<210> 1658
 <211> 784
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 4, 10, 19, 22, 53, 76, 85, 87, 149, 184, 713, 747
 <223> n = A,T,C or G

<400> 1658
 agnnttccgn cggccctcna gntgcatgct cgagcggccg cgcagtgaga tgnatatctg 60
 cagaattcgc ccttancgtg ggcgnangca tgacgctcgg gatcagaact aaaacaagtg 120
 agatcacccc tctaattatt tctgaactng gttaataaaa gcttataaga tttttatgaa 180
 gcanccactg tatgatattt taagcaaata tgttatttaa aatattgatc cttcccttgg 240
 accaccttca tgttagttgg gtattataaa taagagatac aaccatgaat atattatggt 300
 tatacaaaaat caatctgaac acaattcata aagattttctc ttttatacct tcctcactgg 360
 cccctccac ctgcccatag tcaccaaatt ctgtttttaa tcaatgacct aagatcaaca 420
 atgaagtatt ttataaatgt atttatgctg ctagactgtg ggtcaaagt ttccattttc 480
 aaattattta gaattcttat gagtttataa tttgtaaatt tctaaatcca atcatgtaaa 540
 atgaaactgt tgctccattg gagtagtctc ccacctaaat atcaagatgg ctatatgcta 600
 aaaagagaaa atatggtcaa gtctaaaatg gctaattgtc ctatgatgct attatcatag 660
 actaaccgac atttatcttc aaaacaccaa attgtcttta gaaaaaatta atngtgatta 720
 ccaggtagaa ggacctgccc gggcggncgg ctcgaaaggg ccgaaattcc agccccacct 780
 gggc 784

<210> 1659
 <211> 789
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2, 4, 19
 <223> n = A,T,C or G

<400> 1659
 tngngccctc tagatgcang ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
 cccttagcgt ggtcgcggcc gaggtccatt aaagataagt ttggctaact attttactga 120
 agagactaat ggtcttccct ctgttgtact gctatgtttc ttgatctgtt tttccccaat 180
 gtaacagtct acattgaagt ccttttagctc tctccatata ctaattgaca tttgttaagg 240
 attcaatatt ttgtgaattc tttttaccct taaaatgcat atctttcaga gagataagaa 300
 tgaattttgc aataatttat atgcagagtg tgcttatggg tttctgggag ttcaagttag 360
 taccacagag tgcttaaaaag tacgatgcta aattctaagg ctaatgtaat gactgtagat 420
 tatctatgtc cacattgttc aacagaaata taatgtgaac cacaacataa tttttaattt 480
 tctagtagcc atattaaaaa agaaacaagc aaaattaatt ttaataacag tttatgtaac 540
 ccagtatatt aaaaatatca tttcaacatg taatcaatat aaaagattat taatgaaaca 600
 ccttatectc tttttcttcc atgctaagtc ttagatttga gtgtattttg cactcacagc 660
 acatctcaat tctgactgga cctgcccggg cggccgctcg aaagggcgaa ttccagcaca 720
 ctgggcggcc gttactagtg gatccgagct ccggtaccaa gcttggcgta atcatggtca 780
 tagctgttt 789

<210> 1660
 <211> 559

<212> DNA
<213> Homo sapiens

<220>

<221> misc_feature

<222> 3, 53, 313, 323, 330, 368, 411, 452, 457, 460, 463, 470,
487, 499, 516, 518, 545

<223> n = A,T,C or G

<400> 1660

```
ccnccgcctc tagatgcatg ctccagcggc cgccagtgtg atggatatct gcngaattcg 60
ccctttccag cggccgcccg ggcaggtcca tcagacttct tgggtgcctg gctatatcca 120
atgtgaagta aaaaatatcc caagtcttac accaaaatag aggctctgac ttagaagtat 180
gcttttagct ttctttttta ataatgacatt ctggaagaaa aaaaaagaaa aaggaaagaa 240
aatcaagttt gaaacacagt taacacttat tttggcaaga aagcaaccaa aatctaaaaa 300
gcataaacta tngtccaaa tgnaaaaggn attacagaac aaactgcaag aggggaaaat 360
taaagccnca ctgaacgaaa aaatacagta tgtctaacat tttggaattg naatttaaac 420
cctaagggca aaagctgaaa aatcatgctt anacctnggn cngaccacn ctaagggcga 480
attccancac actggcggnc gttactagtg gatccnanc ctgtaccaag cttggcgtaa 540
tcctnngcat agctgtttc 559
```

<210> 1661

<211> 453

<212> DNA

<213> Homo sapiens

<400> 1661

```
ttgggcccctc tagatgcatg ctccagcggc cgccagtgtg atggatatct gcagaattcg 60
ccctttccag cggccgcccg ggcaggtctg cagtgtccct ttttatatca tgctagtgtt 120
gagacatact tgactaactt gggaacagtt cgatatattg acaaccgtca acttaagaaa 180
atcaacagct tttggcccca gcgtccaagt gaacttttca tggagtgcag aatctcaaat 240
ggacaaaata ctttgtcttt ttaaatactg aaaattttaa tattagtact atgactgaaa 300
gattcttcat ggctaaaaag ctctgcatca aactcaattc agaggagact cggccgcgac 360
cacgctaagg gcgaattcca gcacactggc ggccgttact agtggatccg agctcggtag 420
caagcttggc gtaatcatgg tcatagctgt ttc 453
```

<210> 1662

<211> 809

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 16, 25, 47, 98, 301, 437, 446, 461, 464, 491, 500, 524, 526,
530, 564, 589, 599, 603, 617, 633, 657, 658, 676, 682, 689,
696, 709, 726, 738, 742, 751, 753, 755, 762, 773, 776, 779,
784, 789, 792, 802, 805

<223> n = A,T,C or G

<400> 1662

```
ctccagcggc cgccantgtg atggntatct gcagaattcg cccttancgg ccgcccgggc 60
aggctccttag ccaagaatg cagtggagcc ttccccngg ggctgcattg tgaatgaata 120
ccaattgaca gcataaaaat taatagtccc atatcagatc tggaaggggt ttctggggct 180
gtctgatgtc cctatcctgt tgtagtgaac acaatagcag aaaattcttt ctgggtccat 240
```

```

ctgctataaaa gtcttggttaa aacagcatta ctatgaagag gatgaactca cctaccttca 300
natggaggaa aagtgaaaag gacttaggct ttagtcctcc atgacttttc ttaagcacta 360
cctacctgta ataagctgag tgcaaaaagga tgccgaagaa aatctgcacc cagaagctgt 420
tagaaagcac tgcagangaa cagggnatga ataaaataaa nagntcttaa taaaccctta 480
agattccttg ntcaaggggn actttgccaa aaggggcaga atangngggn aaagagttgc 540
ttttaatcta gctctacact ggcntttgaa aataaaattt gccatttng aaatatatng 600
ggntataatt aaaatgnggc tttttacact ggnggggcta tataaaaact gggtagnnaa 660
atttccaccg agcatntatg gngatttgnt cacagnaaac ctccgggcng gaccacgct 720
aagggnggaa ttccagcnac antggggggg ncngntacct anagtggatc ccnagnctng 780
gggnccccna anctttgggg gngtnaatc 809

```

```

<210> 1663
<211> 585
<212> DNA
<213> Homo sapiens

```

```

<400> 1663
ttggggccctc tagatgcatg ctcgagcggc cgccagtgtg atggatatct gcagaattcg 60
cccttgccgc ccgggcaggt gatggatgag gagcaaaaac tttatacgga tgatgaagat 120
gatatctaca aggctaataa cattgcctat gaagatgtgg tcgggggaga agactggaac 180
ccagtagagg agaaaataga gagtcaaacc caggaagagg tgagagacag caaagagaat 240
atagaaaaaa atgaacaaat caacgatgag atgaaacgct cagggcagct tggcatccag 300
gaagaagatc ttcggaaaga gagtaaagac caactctcag atgatgtctc caaagtaatt 360
gcctatattga aaaggttagt aaatgctgca ggaagtggga gggttacagaa tgggcaaaat 420
ggggaaaggg ccaccaggct ttttgagaaa cctcttgatt ctcagtctat ttatcagacc 480
tcggccgcga ccacgctaag ggcgaattcc agcacactgg cggccgttac tagtggatcc 540
gagctcggta ccaagcttgg cgtaatcatg gtcatagctg tttcc 585

```

```

<210> 1664
<211> 999
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 2, 5, 10, 22, 83, 150, 176, 189, 264, 275, 283, 286, 302,
311, 318, 338, 374, 524, 528, 531, 536, 541, 606, 611, 614,
616, 621, 634, 635, 636, 644, 659, 682, 688, 702, 715, 723,
726, 768, 777, 779, 789, 796, 802, 810, 819, 831, 836
<223> n = A,T,C or G

```

```

<221> misc_feature
<222> 853, 854, 869, 874, 893, 900, 903, 911, 989, 999
<223> n = A,T,C or G

```

```

<400> 1664
ancngctcn agcggccgcc antgtgatgg atatctgcag aattcgccct ttcgagcggg 60
ccgcccgggc aggtctgaca atngattaaa caggcgacat gcaaccccca ctaagggttaa 120
aagtcacaaa ctactcacac gcatctcttn attggggaaa agctgagact attatncatt 180
cttggtagnc ttgcaacctt gcatgaagag caccatttgc atttctttca tctttcagaa 240
agcaccggta tctgttccaa gggncataca gtacnaaaat acnttntggg attacacctt 300
tnaaacccaa nactgttntc attaaaaata attttggntt gtaacaaaat tatgaaatac 360
aatgcaagca cctnggtata gcattattac tgaaaccact taattcccag ctttttgagt 420
tttttaaaaa aaccactgc actaagattc acaattcatt gctacataca aattaaagct 480

```

```

agtaagaaca cactaacgtc acaagtttct cattctaaag tgcnaaancc ntaatngtct 540
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tggaangtca ntantntttt naatcccaa aggnnnncatt tctnttttaa aaaattggnt 660
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ttnaanccaa cccccaatt ccaccttaaa aacccccacc cgggggangg ccaaaangnc 780
cacccttgng gaaacncttt tngtgggggn cccgggtcna aaaccaacc nccctntaaa 840
aagggggggg cgnaaaaaaa tttctccna aganaaacc acctttgggg cgnggggacn 900
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<210> 1665

<211> 27

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1665

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27

<210> 1666

<211> 37

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1666

ctattaactc gagggagaca gataaacagt ttcttta

37

<210> 1667

<211> 207

<212> PRT

<213> Homo sapiens

<400> 1667

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Met Gln His His His His His Ala Lys Gly Asp Pro Lys Lys Pro
 1          5          10          15
Lys Gly Lys Met Ser Ala Tyr Ala Phe Phe Val Gln Thr Cys Arg Glu
          20          25          30
Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu Phe
          35          40          45
Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Met Ser Gly Lys Glu Lys
          50          55          60
Ser Lys Phe Asp Glu Met Ala Lys Ala Asp Lys Val Arg Tyr Asp Arg
          65          70          75          80
Glu Met Lys Asp Tyr Gly Pro Ala Lys Gly Gly Lys Lys Lys Lys Asp
          85          90          95
Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys Ser
          100          105          110
Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile Gly
          115          120          125

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Asp	Val	Ala	Lys	Lys	Leu	Gly	Glu	Met	Trp	Asn	Asn	Leu	Asn	Asp	Ser
130						135				140					
Glu	Lys	Gln	Pro	Tyr	Ile	Thr	Lys	Ala	Ala	Lys	Leu	Lys	Glu	Lys	Tyr
145					150					155					160
Glu	Lys	Asp	Val	Ala	Asp	Tyr	Lys	Ser	Lys	Gly	Lys	Phe	Asp	Gly	Ala
			165						170					175	
Lys	Gly	Pro	Ala	Lys	Val	Ala	Arg	Lys	Lys	Val	Glu	Glu	Glu	Asp	Glu
			180					185					190		
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<210> 1668
 <211> 636
 <212> DNA
 <213> Homo sapiens

<400> 1668

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tccgggaaag	agaaatctaa	atttgatgaa	atggcaaagg	cagataaagt	gcgctatgat	240
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cccaaaaggc	caccgtctgg	attcttctctg	ttctgttctag	aattccgccc	caagatcaaa	360
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tatgagaagg	atgttgctga	ctataagtcg	aaaggaaagt	ttgatgggtgc	aaaggggtcca	540
gctaaagttg	cccggaaaaa	ggtggaagag	gaagatgaag	aagaggagga	ggaagaagag	600
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<210> 1669
 <211> 2821
 <212> DNA
 <213> Homo sapiens

<400> 1669

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ccaaccccc	ggccgcgcgc	aatggtatgg	cccggccgga	gttaaggccg	gggggaggcg	240
gcgagtcctc	cggcggcggc	gacgatgggg	ctgcgtgcag	gaggaacgct	gggcagggcc	300
ggcgcgggtc	ggggggcgcc	cgagggggcc	gggccgagcg	gcggcgcgca	gggcggcagc	360
atccactcgg	gccgcacgc	cgcggtgcac	aacgtgccgc	tgagcgtgct	catccggccg	420
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ccagacagcg	tgccccccat	cgatgtcctc	tggatcaaag	gggcccaggg	aggtgactac	540
ttctactcct	ttgggggctg	ccaccgctac	gcggcctacc	agcaactgca	gcgagagacc	600
atccccgcc	agcttggtcca	gtccactctc	tcagacctaa	gggtgtacct	gggagcatcc	660
acaccagact	tgcagtagca	gcctccttgg	cacctgctgc	caccttcaag	agcccagaag	720
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tggtttttcca catagcatgg attctggaga tgggtggcta atggtattgg ttcaacaact 1140
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a 2821

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<210> 1670
 <211> 137
 <212> PRT
 <213> Homo sapiens

<400> 1670
 Met Gly Leu Arg Ala Gly Gly Thr Leu Gly Arg Ala Gly Ala Gly Arg
 1 5 10 15
 Gly Ala Pro Glu Gly Pro Gly Pro Ser Gly Gly Ala Gln Gly Gly Ser
 20 25 30
 Ile His Ser Gly Arg Ile Ala Ala Val His Asn Val Pro Leu Ser Val
 35 40 45
 Leu Ile Arg Pro Leu Pro Ser Val Leu Asp Pro Ala Lys Val Gln Ser
 50 55 60
 Leu Val Asp Thr Ile Arg Glu Asp Pro Asp Ser Val Pro Pro Ile Asp
 65 70 75 80
 Val Leu Trp Ile Lys Gly Ala Gln Gly Gly Asp Tyr Phe Tyr Ser Phe
 85 90 95
 Gly Gly Cys His Arg Tyr Ala Ala Tyr Gln Gln Leu Gln Arg Glu Thr
 100 105 110
 Ile Pro Ala Lys Leu Val Gln Ser Thr Leu Ser Asp Leu Arg Val Tyr
 115 120 125
 Leu Gly Ala Ser Thr Pro Asp Leu Gln

130

135

<210> 1671
 <211> 109
 <212> PRT
 <213> Homo sapiens

<400> 1671
 Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly Glu Ser Arg Gly
 1 5 10 15
 Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala Gly Gln Gly Arg
 20 25 30
 Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu Arg Arg Arg Ala
 35 40 45
 Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly Ala Gln Arg Ala
 50 55 60
 Ala Glu Arg Ala His Pro Ala Ala Ala Val Arg Val Gly Pro Arg Gln
 65 70 75 80
 Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro Arg Gln Arg Ala
 85 90 95
 Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly Arg
 100 105

<210> 1672
 <211> 145
 <212> PRT
 <213> Homo sapiens

<400> 1672
 Met Gly Leu Lys Ser His Val Leu Pro Ala Pro Asn Ser Gln Gly Gln
 1 5 10 15
 Gly Ser Leu Cys Ile Phe Val Tyr Val Thr Ser Tyr Met Asp Tyr Ile
 20 25 30
 Gln Leu Gln Gly Lys Glu Asn Leu Asp Cys Ser Gly Leu Asn Lys Gln
 35 40 45
 Lys Ile Val Phe Pro His Ser Met Asp Ser Gly Asp Gly Trp Leu Met
 50 55 60
 Val Leu Val Gln Gln Leu His Glu Gly Arg Gly His Val Leu Asp Pro
 65 70 75 80
 Phe Ala Leu Ile Ser Val Leu Val Thr Ser Trp Ser Gln Asp Gly Cys
 85 90 95
 Cys Ile Pro Lys Asn His Val Cys Val Gln Gly Arg Arg Gly Gly Gly
 100 105 110
 Arg Gly Arg Ala Lys Leu Ala Gly Pro Val Thr Phe Tyr Gln Lys Val
 115 120 125
 Lys Pro Arg Gln Lys Ser Val Ser Cys Ser Leu Pro Leu His Ile Phe
 130 135 140
 Thr
 145

<210> 1673

<211> 117
 <212> PRT
 <213> Homo sapiens

<400> 1673

Met	Asp	Tyr	Ile	Gln	Leu	Gln	Gly	Lys	Glu	Asn	Leu	Asp	Cys	Ser	Gly
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Leu	Asn	Lys	Gln	Lys	Ile	Val	Phe	Pro	His	Ser	Met	Asp	Ser	Gly	Asp
			20					25					30		
Gly	Trp	Leu	Met	Val	Leu	Val	Gln	Gln	Leu	His	Glu	Gly	Arg	Gly	His
		35					40					45			
Val	Leu	Asp	Pro	Phe	Ala	Leu	Ile	Ser	Val	Leu	Val	Thr	Ser	Trp	Ser
	50					55					60				
Gln	Asp	Gly	Cys	Cys	Ile	Pro	Lys	Asn	His	Val	Cys	Val	Gln	Gly	Arg
65					70					75					80
Arg	Gly	Gly	Gly	Arg	Gly	Arg	Ala	Lys	Leu	Ala	Gly	Pro	Val	Thr	Phe
				85					90					95	
Tyr	Gln	Lys	Val	Lys	Pro	Arg	Gln	Lys	Ser	Val	Ser	Cys	Ser	Leu	Pro
			100					105					110		
Leu	His	Ile	Phe	Thr											
			115												

<210> 1674
 <211> 90
 <212> PRT
 <213> Homo sapiens

<400> 1674

Met	Asp	Ser	Gly	Asp	Gly	Trp	Leu	Met	Val	Leu	Val	Gln	Gln	Leu	His
1				5					10					15	
Glu	Gly	Arg	Gly	His	Val	Leu	Asp	Pro	Phe	Ala	Leu	Ile	Ser	Val	Leu
			20					25					30		
Val	Thr	Ser	Trp	Ser	Gln	Asp	Gly	Cys	Cys	Ile	Pro	Lys	Asn	His	Val
		35					40					45			
Cys	Val	Gln	Gly	Arg	Arg	Gly	Gly	Gly	Arg	Gly	Arg	Ala	Lys	Leu	Ala
	50					55					60				
Gly	Pro	Val	Thr	Phe	Tyr	Gln	Lys	Val	Lys	Pro	Arg	Gln	Lys	Ser	Val
65					70					75					80
Ser	Cys	Ser	Leu	Pro	Leu	His	Ile	Phe	Thr						
				85					90						

<210> 1675
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1675

Met	Gln	Asn	Cys	Val	Pro	Val	Ser	Phe	Cys	Cys	Val	Thr	Asn	His	Pro
1				5					10					15	
Gln	Thr	Trp	Gln	Leu	Glu	Thr	Asn	Pro	Val	Phe	Ser	His	Asn	Pro	Met
			20					25					30		
Gly	Trp	Gln	Phe	Gly	Leu	Gly	Ser	Thr	Gly	Gln	Phe	Cys	Cys	Ser	His

35 40 45
 Leu Gly Ser Leu Met Glu Leu Arg Ser Ala Val Thr Ser Ala Gly Pro
 50 55 60
 Gly Trp Ser Arg Ile Ala Leu Leu Thr Cys Leu Ala Gly Asp Arg Leu
 65 70 75 80
 Leu Ala Gly Ile Ala Trp Phe Ser Ser Met Trp Pro Leu Gln Gln Ala
 85 90 95
 Ser Ser Gly Leu Phe Thr
 100

<210> 1676
 <211> 1336
 <212> DNA
 <213> Homo sapiens

<400> 1676
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 cagcaaagaa aaggaatagg atcaagagat acgtggctgc tggcagagca agcatgaatt 180
 cgatgacttc agcagttccg gtggccaatt ctgtgttggt ggtggcacc cacaatgggt 240
 atcctgtgac cccaggaatt atgtctcacg tgcccctgta tccaaacagc cagccgcaag 300
 tccacctagt tccctgggaac ccacctagtt tgggtgtcgaa tgtgaatggg cagcctgtgc 360
 agaaagctct gaaagaaggc aaaaccttgg gggccatcca gatcatcatt ggcctggctc 420
 acatcggcct cggctccatc atggcgacgg ttctcgtagg ggaataacctg tctatttcat 480
 tctacggagg ctttcccttc tggggagggt tgtggtttat catttcagga tctctctccg 540
 tggcagcaga aaatcagcca tattcttatt gctgtctgtc tggcagtttg ggcttgaaca 600
 tcgtcagtgc aatctgctct gcagttggag tcatactctt catcacagat ctaagtattc 660
 cccacccata tgcctacccc gactattatc cttacgcctg ggggtgtgaac cctggaatgg 720
 cgattttctgg cgtgctgctg gtcttctgcc tcctggagtt tggcatcgca tgcgcatctt 780
 cccacttttg ctgccagttg gtctgctgtc aatcaagcaa tgtgagtgtc atctatccaa 840
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 ccagtgcgat ccaagcaa at aagtaaggct acagattctg gaagcatctt tcaactgggac 960
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 ctgaggaaac gtctctccca ctgtttgtac tctcaccttc attcttcaat tcagtctagg 1080
 aaaccatgct gtttctctat caagaagaag acagagattt taaacagatg ttaaccaaga 1140
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 cacacacaca ttcgtgtgct ctgctgcatg tgagcttgtg ggtagagga acaaatatct 1260
 agacattcaa tcttcaactt ttcaattgtg cattcattta ataaatagat actgagcatt 1320
 caatgtgaaa aaaaaa 1336

<210> 1677
 <211> 250
 <212> PRT
 <213> Homo sapiens

<400> 1677
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 20 25 30
 Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His Leu Val Pro Gly
 35 40 45
 Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln Pro Val Gln Lys

50	55	60
Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln Ile Ile Ile Gly		
65	70	75
Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr Val Leu Val Gly		80
	85	90
Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro Phe Trp Gly Gly		95
	100	105
Leu Trp Phe Ile Ile Ser Gly Ser Leu Ser Val Ala Ala Glu Asn Gln		110
	115	120
Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly Leu Asn Ile Val		125
	130	135
Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe Ile Thr Asp Leu		140
145	150	155
Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala Trp		160
	165	170
Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu Leu Val Phe Cys		175
	180	185
Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His Phe Gly Cys Gln		190
	195	200
Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile Tyr Pro Asn Ile		205
	210	215
Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro		220
225	230	235
Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys		240
	245	250

<210> 1678
 <211> 177
 <212> PRT
 <213> Homo sapiens

<400> 1678
 Thr Arg Pro Arg Arg Ala Ala Gln Gly Arg Arg Glu Ala Pro Pro Gly
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 20 25 30
 Arg Ser Arg Ala Gly Asp Arg Gly Val Glu Ala Gly Pro Arg Arg Gly
 35 40 45
 Arg Gly Arg Asn Ala Arg Cys Pro Gly Thr Gly Pro Asn Pro Pro Ala
 50 55 60
 Ala Arg Asn Gly Met Ala Arg Pro Glu Leu Arg Pro Gly Gly Gly Gly
 65 70 75 80
 Glu Ser Arg Gly Gly Gly Asp Asp Gly Ala Ala Cys Arg Arg Asn Ala
 85 90 95
 Gly Gln Gly Arg Arg Gly Ser Gly Gly Ala Arg Gly Ala Arg Ala Glu
 100 105 110
 Arg Arg Arg Ala Gly Arg Gln His Pro Leu Gly Pro His Arg Arg Gly
 115 120 125
 Ala Gln Arg Ala Ala Glu Arg Ala His Pro Ala Ala Ala Val Arg Val
 130 135 140
 Gly Pro Arg Gln Gly Ala Glu Pro Arg Gly His Asp Pro Gly Gly Pro
 145 150 155 160
 Arg Gln Arg Ala Pro His Arg Cys Pro Leu Asp Gln Arg Gly Pro Gly

Arg 165 170 175

<210> 1679
 <211> 42
 <212> PRT
 <213> Homo sapiens

<400> 1679
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 1 5 10 15
 Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val Thr Ser Pro Pro
 20 25 30
 Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
 35 40

<210> 1680
 <211> 717
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 22, 586, 687, 714
 <223> n = A,T,C or G

<400> 1680
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 ttgtatcttt tatttaggtg ccaaggtata acccactgct tgaacttggt ccagatgatt 180
 cttccaaaga tgtctcttct ccaagcacca ggtctagctc tttcttgacc agtctgaaga 240
 agccttaggg catcttctct ttcttgga caacttatcta atgcatccat ggaatctact 300
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 ttacttttgt tccttagttg ctgacaggtc catgctgctc cagattttac tttttcttgc 480
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 aaaaaccctg tcaggcaggg acctgaggag ttattaacga accgggaaga attcagggcg 660
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<210> 1681
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1681
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 aagaaattca agaaaacaaa taaatacagg ggtatactat attcatgaat tgggagaatc 120
 aatatcatta ttaagtctcc tcagattgat ctatagattc acagaaatcc caattcaaac 180
 cctatcagga ctattttagt aaatagacac actgatgata aaatttacat agaaacacaa 240
 aggaagcaga atagccaaaa attattgggg aaaaaatgta gttgaaggat tcccattact 300

ccttt

305

<210> 1682

<211> 498

<212> DNA

<213> Homo sapiens

<400> 1682

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aaattacact ccataaattt agacatatgt ctctccaagt aagtacgagc tgattgggaa 60
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atgtgagggc ccataatcatc ataaccagca ataaggagac caacaccata tggctctcgg 180
ccatatcggt gtgttggtat ctgggtctct tagactgggt aacgagcttg ttttaacaag 240
gaatgaagta ctgtctttat tttcaaatta tacattatta acaaaggtct ctggcttatt 300
ctttaattgt tgcataatcc accagagaaa taatgcaata ggacactatt tctttggcct 360
aatataaaat gtttgacttt ctaccgaacc taagaaagag tgccagcaaa ataatttctt 420
cccatctaaa acctgatttg ttttggatac aagggggtct aggatttctt gggacatcta 480
gaaccattaa gaaacttt

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<210> 1683

<211> 322

<212> DNA

<213> Homo sapiens

<400> 1683

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aaaaattaaa aatagcaciaa ttctacaatt ctgattttac caagaaaata aacctttttt 60
ggcacatatt atcctatgaa aatggaaagc tgagtcaggc tgctctgctt ttcacagcac 120
aaataagcat tcatgctatc agacttggga aattaactcg gtgacaaaaa ttcactggaa 180
aatagaatcc ttggaaaaat ggggtcaggt gccatccact gagaggcaat gataatgtgt 240
gtccttcggt attagcaciaa agttaggcag cacactataa ttttagctac atgcaactct 300
ataggaacac atgtgggtaa gg

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<210> 1684

<211> 293

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 51, 182, 188, 195, 203, 220, 246

<223> n = A,T,C or G

<400> 1684

```

aaaagatgct gcttcctgt tttcttccag gaacacagag accaacaagg nttcaaacac 60
agggcgagct tctcactatt tcttggaat gttacttctc agcccaacac ttctcttccc 120
aagaagttca agttttgaga ctgtttttct ccccggaaca gtacttaaaa aaaaaaaaaat 180
cnttgatntt caaanatggg ttnttttctg gtcttggaan agcatcagta actaaatatc 240
aagtnttcca caatgctgcc cccctgggg ggctaaccgg atgccaaggg aga 293

```

<210> 1685

<211> 390

<212> DNA

<213> Homo sapiens

<400> 1685

```

aaattgtcta actcctatcc cagtttcttt ttatagtcta aaaacaagga atcacccaag 60
taagatactc cttcagagca ctgctgaaaa cggatcaaac gtagagatcc cccagatccc 120
tggttctcaag tggttaaaaat attttatatt agcacataga atacccttag atatatctg 180
ttatgttcta aagagtittgt gtttccccct ttttgatgat gtcttcaatt tcttctgaga 240
cctttcctgt atagtcattt gggttctattg cttttaactt ctcttgatac tccagcggca 300
aaccattttc ttttgacccc atgcaaataa tctttttata ctgtggggat gggggagcac 360
tttcgtaatt tgtcatcaga taacttcgac 390

```

<210> 1686
 <211> 549
 <212> DNA
 <213> Homo sapiens

```

<400> 1686
gggtccagtc caacctgctc ctcattattg taaacatgtg cagaatcaat atgggtggaac 60
ccggcttcta ttgccaatTT gacggcctct agagctttac ttttaggaac ctgggggagc 120
aaccaaactg aatatttttct gactaatgtg cctgagagtt agttcgggca caagcagcaa 180
cgttcacaaa aatcagcttt tcttcctttc ttggatgagc tctgtatgta gaatcataag 240
cccatcccag tctgactggg tctttcccat ttagtaataa aggttgggca tagcaggaac 300
ttctgcagtc ccagaaaaat cactgaaagt ggaagtgtcc ccaaaacaat ttcactttca 360
gtgatttttt ggaaaaatca acaggacgca actatagtta cagacataat ctttaattatt 420
tttagtatgg tgaaattaac acaaggaaat agccacatgg aaggaattat gaaggaatgc 480
agtgtaaagt cctgtgattc ctctcccacc atgttgcaca gagcgcactg actttatcca 540
gcatcatat 549

```

<210> 1687
 <211> 442
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 34, 50, 67, 382, 384, 385, 435
 <223> n = A,T,C or G

```

<400> 1687
caactgcaaa tgaagatcct ttttggatac ttgntgagaa agacacattn gggggggggg 60
tgtgacnaaa ataacgatgg ccggcttgat cccaagagc tggttacctg ggtagtacct 120
aataatcagg gcattgcaca agaggaggcg cttcatctaa ttgatgaaat ggatttgaat 180
ggtgacaaaa agctctctga agaagagatt ctggaaaacc cggacttggt tctcaccagt 240
gaagccacag attatggcag acaggctcca tgatgactat ttctatcatg atgagcttta 300
atctccgagc ctgtctcagt agagtactgg ctctttttat aatttggttac cagctttact 360
tttgtgataa aatattgatg tngnntttta cactcttaag tcttaaccac agtcacaatt 420
atcttaaatg agatnataat tg 442

```

<210> 1688
 <211> 340
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 23, 52, 56, 58, 60, 62
 <223> n = A,T,C or G

<400> 1688
 ctgccagcta acagcaagag cnttgagggc atcactgaac agatagcacc tnatgngntn 60
 tnatgattca aaaatctccc ttgctgttgg atttaccac acgtaggctt ttattttcttc 120
 ccattacatc tgttttagcca cagaaagcat cgggccatac tcaactgcaga agataagact 180
 tcctcagaat cttatttggt tagtgcactc aattttactt cactgtctca tcacttgaga 240
 gactggttaa ggcaagaaac ccatttctta acattttttt tgttttcaaa catttgaaaa 300
 gcaacaccaa aacgtatgca gttaattcct caattctttc 340

<210> 1689
 <211> 140
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 61
 <223> n = A,T,C or G

<400> 1689
 ccagagggcc tgcacatgca atttccagtc cctgccttca gagagctgaa aagggggcct 60
 nggtctttta tttcagggct ttgcatgcgc tctattcccc ctctgcctct cccacaccttc 120
 tttggagcaa ggagatgcag 140

<210> 1690
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 1690
 gagattatta cccagaattc acatgtaggg atggggaagg acaatttttt tttaactaaa 60
 aaagttagcg gcaggggtgg ggggtggcaa tcattttttt tcctatacat acaaaggata 120
 ttgtcaaaaa tggcgttctt ctcttggtggc ctgttattct gattgctgct gtatacagtt 180
 ttgtcactct ttagttttta gttaagcata ctgatagact ttctctataa agccattcac 240
 tccagatttt acctggggaa tattctacat actgcttact ttctctataa aactcatcaa 300
 taaatcatga aaggcactga gttttgtaaa tcaggaccct aaatgtttta ttgtaaataa 360
 gtttcagata attattatag ctttgcggtg aagtttggtt ttttttttct caactagtta 420
 agtcaactgc ttctgaaata actctgtatt gtagattatg cagatcttta caggcataaa 480
 tatatt 485

<210> 1691
 <211> 342
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 11, 24, 26, 49, 50, 51, 53, 61, 62, 142, 173, 190, 193, 242,
 250, 291, 303, 304, 315, 329
 <223> n = A,T,C or G

<400> 1691
 gaagaaacaa ngatgacttt tttanaaaca aagcataatg ctggcaatnn ngnggggggt 60
 nnagttttcc aaacatgtta tcttaaatac ccctttatcc ttacaggttg acataacttt 120

```

gaatgtttta acagcaagaa tnttaagaaa agataaacac cattttatatt atntataaaa 180
acaaaattan ttncaaatat ttttgacatt gtgatttttt ttttccacat ttctcagcaa 240
anctaattggn attttaatca ttattttttgc ctgtcataag aaaactctta nctgaaatgg 300
ccnnaaaact gtganacatg ctatggaanc tgaatgccgg ac 342

```

```

<210> 1692
<211> 450
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 23, 59, 60, 409, 417
<223> n = A,T,C or G

```

```

<400> 1692
aaaaatgggg ccccaaagac tgntaagagc tcatccccgt ggtctcctat caccgggggnn 60
gggggttcatt tctgatgaga agcttggacg gtactgaaac tcatacatgt aggtgggtgc 120
tccagcatct ctgtgggttc gggccacaat cacagatggg acaccaaaca tcacatctgc 180
tatcaagtcc aggaacaggt ctttcttttt gacagtgtcg tctgttcctc ctaagtattt 240
ctcagtggct tctggaatca gttccttagc aatgcaaaca aggggatagg acttccacag 300
gagtgcacatg gctgtcttct ggtccagttg cccttcggag agtggatagc tcatcaactg 360
cattggaatc aaccagccaa actcctgctt gttaattccg accatgtang ggacagngtg 420
gaaattcctt tcagcttgaa agctcttcag 450

```

```

<210> 1693
<211> 436
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 20, 51, 52, 58, 62, 286, 323, 333, 375, 385, 399, 401, 402,
407, 410, 426, 432
<223> n = A,T,C or G

```

```

<400> 1693
ctatttttatt aacatcatgn tttaataaat aactggctac ttctaataaa nnggggggnct 60
cngttttacaa cagcccccaa tattccattt tgaccactct gcagaatttg gtgtaaaaag 120
ttgaatgaaa tgtagaccct gagctatcaa gtaattatgt ttcaatataa aaatagagaa 180
ttactcttac aactgaagat tgaacaataa cacaaacaac ctctttgtgg gttttagggt 240
cggtaaaatt agttgggac ttaatggctg tctaaagcag gaaganacag aattttaatc 300
tttctgaaga cttctgggaa ctnccttgaa agngatttgt taccttatca gagtttatga 360
gctattattt tggtnaaggc acaangaaag gattcccang nngttgntan tcttttgccc 420
tggaacnaaa anattg 436

```

```

<210> 1694
<211> 313
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 29, 32, 34

```

<223> n = A,T,C or G

<400> 1694

```
attatctgca aggttttttt gtgtgtgtnt tngnttttat tttcaatatg caagttaggc 60
ttaatttttt tatctaataga tcatcatgaa atgaataaga gggcttaaga atttgtccat 120
ttgcatttcgg aaaagaatga ccagcaaaag gtttactaat acctctccct ttggggattt 180
aatgtctggg gctgccgcct gagtttcaag aattaaagct gcaagaggac tccaggagca 240
aaagaaacac aatatagagg gttggagttg ttagcaattt cattcaaaat gccaaactgga 300
gaagtctgtt ttt                                     313
```

<210> 1695

<211> 522

<212> DNA

<213> Homo sapiens

<400> 1695

```
ccatttttcag gggaagcttg ggagagcaat agtatgggtga gccccttaga gatgagcgcc 60
tactccttct tggcgaatgc tgccttcaga tgcttaccaa gtggtcactg catctagtaa 120
gattatatatt ccagtacact tccttagggc agaaacacca tcctatcagg tttgggtcagt 180
cccttcttca tgaagggagt catggggaat tcctgaaaat tttcttcctt ctgcagacag 240
ttggatgagt cccttagaga aggcattccag agacataact aaactgaata tcatcccata 300
ttgatttttag gaattgactc taaaactctg tgcagaatct tgtgttgagg ttgtatcttg 360
acattcctgt tgtgttatatt ttcttaactg gagtgtgtgc tgcctttcag gtacaatttt 420
tgtgtaataa aagccagtgc attaatgtta tatagactac tttctatgca agactgagat 480
atggaataga taggaagaga tatgtactgc tgggtacatg ga                                     522
```

<210> 1696

<211> 174

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 52, 55

<223> n = A,T,C or G

<400> 1696

```
ccagccattg cctggcattt ggtagtatag tatgattctc accattattt gncanggagg 60
cagacataca ccagaaatgg gggagaaaca gtacatatct ttctgtcttt agtttattgt 120
gtgctgggtct aagcaagctg agatcatttg caatggaaaa cacgtaactt gttt       174
```

<210> 1697

<211> 561

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 22, 55, 56, 198, 265, 374, 378, 399, 410, 465, 543, 549

<223> n = A,T,C or G

<400> 1697

```
ctgtaatggt attgcagatc cncatctctc gctcaactgt taatgtctca acctnnagag 60
gcacccacc cagcacactg tcagtaaagg ggcagattga aacagtgaga gttaagggta 120
```

```

cagtagaaaa ttctgcatgt ttgcagtgac tagaatcaga tagtagtggt gtgggtttttt 180
tttttaataca ttatgaanag tgggagcttg caggtaaggc ttctgtggtg gtttgaaaag 240
cagaaagcaa taaatgaaac aaagngtttg tgtaatatat tcctgccttg tcttcttcac 300
tcagagttga aatagggtttt gcagtaaagc tggaaaaaaa aagaaaacaa atgttcaaaa 360
ctgtgtgtgt tggngggngg aatttccttt gcttatagna gtttcagagn aactatatgt 420
tttttttcct ttctttttca caggcacaga aaactgaatc tgtanataac gagggaaaat 480
gaattgcatg aaaaattggg gttgatttta tgtatctctt gggacaactt ttcctcggcc 540
gcnaccacnc taagggcgaa t 561

```

```

<210> 1698
<211> 267
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 58, 62, 63
<223> n = A,T,C or G

```

```

<400> 1698
cgaggtctgc cctcgattgt gtatttctgt tggatcaaac actcccatgt taccactngg 60
cnncataatg tatcgatata tattccaagt ggcaacaggt aagttgagaa ggaagatgaa 120
ccagtgcaat gacatgagca gtaatacagt gacaatggta tggccactta aattaaaaat 180
ataacaaaat tgaaaaatag acatataacc aaaaagattc taaatcttgc aaggaaaaaa 240
agaataaagc tgccaataag ttattttt 267

```

```

<210> 1699
<211> 449
<212> DNA
<213> Homo sapiens

```

```

<400> 1699
tgttaagatt ttttttgcta caaagaggag gtggcaatgg tagatccacc cttatgcttc 60
tcagtttagc ataacctctt atggattttc atcaaattca gcgtgttggt cactggaaag 120
agccttttcc ttctcctttt cttactctcc cctcatgggt tccccctctt aaaggagagg 180
agcttttaat ttacacttac cacctcattt gcttttctgg aggccatgca atataggcgg 240
gactacagag ttaatctcct ttttaciaat gaggccaaga gaagcctcat tggttcacag 300
tcatgcagct catactgtcc acccttgtat tctcagatgc aggacaattg catttttagtt 360
ttattttgtg gaggtgcaga atatttactc tttctgtcca acccttgatt ctgccgagga 420
agacactgat ggtttgatga gtgattcag 449

```

```

<210> 1700
<211> 398
<212> DNA
<213> Homo sapiens

```

```

<400> 1700
acatttcaca aataagatgt agctttccaa acaaatccat tcgatgacca ttatcacaac 60
tataatttat tctaatttat aaaacaaaaa atggtttagac aagcacatga tatcaagagt 120
cttcaacaca gtggattcca ttttattaag aaaaaaata gaaaacaagt agtccttaaa 180
ttgtcttagc tctccatagc atacgttata taaaattaaa gttttgcttc caaaaatatg 240
tttccatgtg gtcgtggtgt tgtccagtcg tattagggcc aaagcaccaa agacatgaga 300
agtttaacca tcgacttgtc atttttcata aaagctaaac atttccttat aggtctggag 360
taaaatcttc taggcatttt agtgctaaaa gtcacttt 398

```

<210> 1701
 <211> 257
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 4, 12, 13, 27, 47, 53, 61, 63, 76, 77, 78, 79, 86, 87, 88,
 89, 92, 93, 97, 100, 101, 103, 127, 129, 130, 133, 134,
 141, 142, 143, 147, 149, 152, 155, 164, 166, 174, 185, 188,
 194, 203, 205, 220, 228, 237, 238, 240, 241, 246, 251

<223> n = A,T,C or G

<400> 1701

```
aaanaacact annngacctt agagatnata actgtttgat aatttgnctc agncgtattg 60
nentaagaaga tatatnnnng gggggnnnnt cnntgtnaan ngntgtttgg attgcctgat 120
attatancnn ggngtttggg nnntatntna cncantatac ctengncgca accncgctaa 180
tggcnagnat catnacactg gcngncgtta ctactggatn cgagctcngt gccaatnncn 240
ncgtentcat ngcccta 257
```

<210> 1702
 <211> 526
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature

<222> 9, 476

<223> n = A,T,C or G

<400> 1702

```
acctaattna ttgaagtaat aaccaaataa ttttcaatct tgattcaact gtgattcaaa 60
tettacacca tttgccact tctatgaatt ttatgtataa aattttttta gagtcagagt 120
tttttttctt gattaattgg atgtatttca cagaatttcc aactgctcac gttagttttc 180
ttccttttag agttgatctc tctaatgtat tagatcttca tgcctttgat agtctctctg 240
gaataagttt gcagaaaaaa cttcagcatg tgccaggaac acaacctcac cttgatcaga 300
gtattgttac aatcacattt gacgtaccag gaaatgcaaa ggaagaacat cttaatatgg 360
ttattcagaa tcttctgtgg gaaaagaatg tgagaaacaa ggacaatcac tgcattggagg 420
tcataaggct gaagggtatt gtgtcaatca acgacaaatc acaacgagtg attgtncagg 480
gggggtccatg agctctggtg atccgggagg agactccaat gagctg 526
```

<210> 1703
 <211> 116
 <212> DNA
 <213> Homo sapiens

<400> 1703

```
gacctccgaa ctgagctcta atttagctga tcagattttg cttgggtaaa gttccttttt 60
aatgtttctaa agtgttttac gttctcaa atcagttaaa aactaatttt aggtgg 116
```

<210> 1704
 <211> 241
 <212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 209, 230, 235

<223> n = A,T,C or G

<400> 1704

```

aaaaattgtg taattgttaa atgtccagtt ttgctctggt ttgcctgaag ttttagtatt 60
tgtttttctag gtggacctct gaaaaccaa ccagtacctg gggagggttag atgtgtgttt 120
caggcttgga gtgtatgagt ggttttgctt gtattttcct ccagagattt tgaactttaa 180
taattgcgtg tgtgtttttt ttttttttna aggggctttg ttttttttn tcaanaaaaa 240
t                                                                 241

```

<210> 1705

<211> 336

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 9, 12

<223> n = A,T,C or G

<400> 1705

```

ggtcctgtnt anacacacat caatatgaaa caaaaaaaat ttatataaat aagtcaatta 60
aacttcacaa aaactaaaga aacacaagac aaaaatccaa caagcaataa aaactgtaca 120
atattgggtca gtctttttata tctgaaaaat gtgtaactta aaaaaaagtt atttatcgta 180
taaaaaaagt cttttacatc tgtgttagct ggagtgaaaa cttgaagact cagactcagt 240
ggaaacagat gaatgtccac ctgcgtttcc tttggagagg atcttgaggc tggaccctct 300
gctcacagag gtgagtgcgt gctgggcaga ggtttt                                                                 336

```

<210> 1706

<211> 107

<212> DNA

<213> Homo sapiens

<400> 1706

```

aggggtggctc tgggagcagt tgtgctgcgg gcttgctggg ggagaactct aactgttgca 60
gaaacagagc ttcattggctt gcttaaatta cttagctgga atattttt                                                                 107

```

<210> 1707

<211> 512

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 468, 470

<223> n = A,T,C or G

<400> 1707

```

ttttttgtct ggtaattata tatttattat ttagcaaaac tgaagaaaaa aagcacagaa 60
ttgtttcaac agatgtctct cattttcagc tagcatttct ctoccaaagt gagctgggtt 120

```

```

aatgtgtttt ggatttccct cctcaattgg cttatttttt agatcacctg caattcattt 180
gcaaattgca ataaaacaca ttttagaaaa aaggaacctt caattattag ctttgtttct 240
ttttaaatgt atatatatttg actaatgttt gtgaatgaag ttggctaaca tgtatttagt 300
ttcatttttg cggtatgtaa tataaagttt ttaaaatttt aaatatgggt ttaaccttta 360
tgtgtaaagt attttctagt gtgaccttct aatttaatat tagacgtcta aggtatatct 420
gtaaattaga atccgactat cactctgttc attttttttg aacaaagn gn ttaaagaaag 480
cctgaaccag ggaaaaaaaa aaaaaaaaaa aa 512

```

```

<210> 1708
<211> 203
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 28, 36
<223> n = A,T,C or G

```

```

<400> 1708
aatcttctaa aggaagaaca gacccccnag aataanatta cagttggttg gggttggtgct 60
gttggcatgg cctgtgccat cagtatctta atgaagacta taatgtaact gcaaactcca 120
agctgggtcat tatcacggct ggggcacgtc agcaagaggg agaaagccgt ctttaatttg 180
tccagcgtaa cgtgaacatc ttt 203

```

```

<210> 1709
<211> 271
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 1
<223> n = A,T,C or G

```

```

<400> 1709
ngttgaaaaa atagatccaa tcagtttata ccctagttag tgttttgcct cacctaata 60
gctgggagac tgaagactca gcccggttg ggctgcagaa aaatgattgg cccagtc 120
cttgtttgct ctttctacag gcatgaggaa tctgggaggg cctgagacag ggattgtgct 180
tcattccaat ctattgcttc accatggcct tatgaggcag gtgagagatg tttgaatttt 240
tctcttcctt ttagtattct tagttcttca g 271

```

```

<210> 1710
<211> 239
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 58
<223> n = A,T,C or G

```

```

<400> 1710
tacaaaatat tttaattgta agtgggtcaga ggaattcttc tggtttctcc cttatggnta 60
tttttaattt gtacaatagt tgcttctgtc aactcagcga caatgccatc atagctttca 120

```

aatgagatca ccctgtagat cgatggacta tgccttaaag ttgcagatgc ataaaggaga 180
ctgaggacaa atggtgaaaa ctgtagttac tgaacccaaa tgttactcag agatatcaa 239

<210> 1711
<211> 122
<212> DNA
<213> Homo sapiens

<400> 1711
agtgtagtgt aacacagaag agtgacatgt ttacaaacct caagccagcc ttgctcctgg 60
ctggggcctg ttgaagatgc ttgtatttta cttttccatt gtaattgcca tcgccatcac 120
ag 122

<210> 1712
<211> 169
<212> DNA
<213> Homo sapiens

<400> 1712
ttcccataaa taaaagtaca gttttcttgg tggcagaatg aaaatcagca acttctagca 60
tatagactat ataatcagat tgacagtata tagaatatat tatcagacaa gatgaggagg 120
tataaaagtt actattgctc ataatgactt acaggctaaa attagtttt 169

<210> 1713
<211> 392
<212> DNA
<213> Homo sapiens

<400> 1713
tgacagagag gatggcgctg tcgaccatag tctcccagag gaagcagata aagcggaagg 60
ctccccgtgg ctttctaaag cgagtcttca agcgaaagaa gcctcaactt cgtctggaga 120
aaagtgggtga cttattggtc catctgaact gtttactgtt tggttcacga ttagcagaag 180
agtcaggagc aaacgcttgt gcgagtaaag gtagagtcac taacaaggag catgtactgg 240
ccgcagcaaa ggtaattcta aagaagagca gaggttagaa gtcaaagaac atattcttga 300
aagttatgat gcattctttt gggtggtaac agatcataaa gacatttttt acacatcagt 360
taatattgga ttattaaata ttggctataa aa 392

<210> 1714
<211> 301
<212> DNA
<213> Homo sapiens

<400> 1714
tgggagggat attttccac aggaacaagg gtctccgtga tgacacgggg tctctatagt 60
catgttgaga gcctaattggc ccttggcata attgctggtg ttggggtaga aggtgtcttg 120
gagtttgctc aagtgggtga gagggaggga ggtgccatag acttggagga actggcacga 180
agccaaggat acaaatccag gcagggtgtg ggggcaggat agggagcagg gccttctact 240
gaaggagtga ctcaggaagg aggaggggaa ggtgacaagc ccctgggcag gagccctgtg 300
g 301

<210> 1715
<211> 194
<212> DNA
<213> Homo sapiens

<400> 1715
 taaattcagg ctaacttctg aaaatcccgt tttattcacc tcaactgtgg accagtaact 60
 atactgagtc aggttacttt acagttaact atgtcaccta aaacacaata atccattaac 120
 actctaataa cagttattgg gtgtgggtcat actggaaatt ctttaaccata tagttgtctt 180
 gccaatTTTT tttt 194

<210> 1716
 <211> 185
 <212> DNA
 <213> Homo sapiens

<400> 1716
 gtaggaatgg gttcttggtg cacaagatag tattgttgag ctagttttcg agctctgtgc 60
 acaagcactc tttaattccc acggacgggg ctctccagc tacagcagcc aaagcatatt 120
 caatctggac aagtttacca gacgggctga atgtagtcag cgaaaaactg taccgcgcgt 180
 ccgcc 185

<210> 1717
 <211> 296
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3
 <223> n = A,T,C or G

<400> 1717
 aanaggctct tgggtggagag gactgtgaag ccgtcggcag gtgtgccctc ggttgtgccc 60
 tcggcgctgg ctgccttact gacttcaccc tgcttcttct tggatttccg ggcccccttc 120
 ttgcctcctg cttttttaga tgcaggcttc ttctgggatg gagacttggc ctttttggct 180
 ggggggtggtg tgatgatggc ttccaacttt cctttggatc cccgcttctt cgctagcaac 240
 tcgggggtgga tgttgggtaa cacaccccca ctggctatgg tgactccttt tagcag 296

<210> 1718
 <211> 343
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 208, 322, 341
 <223> n = A,T,C or G

<400> 1718
 atggcattaa ttgttccttg cttttatagg gtgtattttg tacattttgg atttctttat 60
 ataaggtcat agattcttga gctgttggtg tttttagtgc acttaatat agcttgctta 120
 aggcatactt ttaatcaagt agaacaaaaa ctattatcac caggatttat acatacagag 180
 attgtagtat ttagtatatg aaatatntg aatacacatc tctgtcagtg tgaaaattca 240
 gcggcagtg gtccatcata ttaaaaaatat acaagctaca gttgtccaga tcaactgaatt 300
 ggaacttttc tcctgcatgt gnatatatgt caaattgtca ngc 343

<210> 1719

<211> 193
 <212> DNA
 <213> Homo sapiens

<400> 1719
 tcgaggaccc ccgagatgca gaggatgcta tttatggaag aaatgggttat gattatggcc 60
 agtgtcggct tcgtgtggag ttccccagga cttatggagg tcgggggtggg tggccccgtg 120
 gtgggaggaa tgggcctcct acaagaagat ctgatttccg agttcttggt tcaggacttc 180
 ctccgtcagg cag 193

<210> 1720
 <211> 176
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 30, 91, 145, 168, 170
 <223> n = A,T,C or G

<400> 1720
 tgattcagaa ttttttttaa tgaaaggatn attgcactaa ctttcttcct gctgctctga 60
 ttctgcattt gtggtacttg tgactacgtt ntttcaaata tagatagatt taagctgcta 120
 attttttttt ttttagtaac cactnctata tcatgtcttt tactctgntn ataata 176

<210> 1721
 <211> 128
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9
 <223> n = A,T,C or G

<400> 1721
 tattcttang aaacttcctt aatcccttgg aaattcccg gtccttcaag aataaaaaaa 60
 aaaggggtcaa gaagaacaaa ttaccaaagg gaaagaatgg ctttcaatat aataaggtcc 120
 attttttta 128

<210> 1722
 <211> 285
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 34, 140, 165, 170, 230, 255
 <223> n = A,T,C or G

<400> 1722
 ttatgaagtt gacaaataaa taaaaggtag tggntatgtc tgagcttatt gtgtttgagc 60
 taacaccagg ttactcagta accatgacct gtcctccat ttccatttat tctcaacatt 120
 aaatagtttt atcttggtgn tgccagaaat gcacttggtc caggnattgn ccctgctgta 180

tgaaaagctt cttggcaatg aattctgtaa taagtgcctt acattatggn tttctggtgg 240
aattggttta acagngacaa cccaggattt ccaatatatt tttgt 285

<210> 1723
<211> 536
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 33, 66, 67, 68, 406, 437, 450, 462, 498, 515, 516
<223> n = A,T,C or G

<400> 1723
cttggcttgc aggtggcacc ttctcactat gtctcacat ggccttttct ctgtggagag 60
ggacannnag catgagcagg ctctggtgtc tcctcttctt ataaagacac taatatacacc 120
atattagggc ttaaaccctat gacctcattt aaccttaacc ccttaaagggt cccatctcca 180
aaaacagtca catagcaggc tactgcttca acatatgcat ttgggggagg ggacaccatt 240
cagttcttaa caggggtggc accgcaaaca tggaaagtca gagccttctc cccttcagaa 300
ttcccgcccc caccagggga tggggaagag gagcagagag gtatgggaag cagacacgga 360
gagtggcagg taccatgctg ggggtgggctc aggagtgtt tcgganggac atatggaact 420
ggcagggctc aatgcangga gggcggaagn ccttggaag ancccggtggc ctgagaaagg 480
ggctgggcta caaccctngg caagttactt tacnntgac cttcgatgct tttggg 536

<210> 1724
<211> 145
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 4, 12, 27, 32, 45, 47, 48, 59, 61, 65, 93, 98, 103, 121
<223> n = A,T,C or G

<400> 1724
ctgncctttt gnaacaggac cctcacncta tncaatgggg ggttnanntg aagcatganc 60
ntatncatgc ggaaaaccca actcatgtga gcncaaancg gancgaccca gacaaccatg 120
natgcggcta atatggggag agaaa 145

<210> 1725
<211> 173
<212> DNA
<213> Homo sapiens

<400> 1725
caattctgga attaccact tgtttaattt tgagcaacat gatctagcat taatgtagtc 60
acattctaaa tcagacaatg taattatgaa gtagaccgag aggaagatga gcgcgcaaca 120
atcgaggaga gagaagacga acaccaccgc ctccatctc ctctccgtc gcc 173

<210> 1726
<211> 302
<212> DNA
<213> Homo sapiens

<400> 1726
 acccggttgga aatggggccat ggtctaattt ggtggttgaaa taaactaacc tcttttggtg 60
 tttctcccaa actgccacca gccaggcaag gccaatccaa tactgactgc tggctggggg 120
 agctcgtaat gggatgatgcc gccctgcttt ttgcatatgt caggctaaca ggtgctttat 180
 ttccagagaa ttgttaatgc ccttttttga aaagagcagc agaaattccg gacaagaatc 240
 tgaaaaatag gtgtcaaaaa ctatttccca gaaggtagct gtacaggagt ttgagtctcc 300
 ag 302

<210> 1727
 <211> 274
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 3, 4
 <223> n = A,T,C or G

<400> 1727
 ttnggttgaa aaaatagatc caatcagttt ataccctagt tagtgttttg cctcacctaa 60
 taggctggga gactgaagac tcagcccggg tggggctgca gaaaaatgat tggccccagt 120
 ccccttggtt gtcccttcta caggcatgag gaatctggga ggccctgaga cagggtattgt 180
 gcttcattcc aatctattgc ttcaccatgg ccttatgagg caggtagagag atgtttgaat 240
 tttctcttc ctttttagtat tcttagttct tcag 274

<210> 1728
 <211> 415
 <212> DNA
 <213> Homo sapiens

<400> 1728
 aaatcccttt ctgcttccac tggaggcaaa actgaacaaa atgttagtta aatagagaga 60
 gcagcatttc taagaaatct gtggtcagca ttatagacca tctatgctac aaggatgtca 120
 ttaaataagga ttgttcaat tactggattc ttcttctatg atcagttata gaatttctgg 180
 tttatatctc tgattcataa aactgggact ccactttttg aagatacatc tgattgattt 240
 ttttcagtca tgatttaaca gacttctttg agatgctcat tttaacattt acataattta 300
 taatcccaaa tgtataaaag acaatgaaaa aagcatcata aataaataat gcaaaatgaa 360
 atagttatgt cagacttttg gaccttctga taaattagca aaactgtaac agaaa 415

<210> 1729
 <211> 309
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 4
 <223> n = A,T,C or G

<400> 1729
 acanaccgta tactttatgc aaacaaagtg atgcctcact gacttaggag acaagtcaca 60
 tgccatcagt gtgtcagaaa atttctttct tcagtgatag ttaaggtaac ctgccagct 120
 actttccaga gacagctcca gggcaatact ggggaaaaaa aaatcagaga cataggacct 180
 caatagagcc ctgtgcaaca aaaagatgct agataacaaa actcaaagca aaactaagat 240

cattccaatt taggggaaag tttttttatt cagtgtttaa gattaaaaac tacaagattt 300
tgcttgacag 309

<210> 1730
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2
<223> n = A,T,C or G

<400> 1730
anctgtactg tatttatggt gctattgggtc aaaagagatc cactgttgcc cagttggtga 60
agagacttac agatgcagat gccatgaagt acaccattgt ggtgtcggct acggcctcgg 120
atgctgcccc acttcagtac ctggctcctt actctggctg ctccatggga gagtatttta 180
gagacaatgg caaacatgct ttgatcatct atgacgactt atccaaacag gctgttgctt 240
accgtcagat gtctctgttg ctccgccgac cccctgggtcg tgagg 285

<210> 1731
<211> 244
<212> DNA
<213> Homo sapiens

<400> 1731
cattaccttg ctaaaatttc cactaagcta cagcttcaga tatttacaag aaaaataaat 60
atctttttaac agacttcaat gtggtttaac agcaagctag ctgaggagtt gtattttgtt 120
gttatttcag gtaacttttt attaagaaac agttaatatt tcagcgatta caatttcagg 180
tggtcaaaac tcaagaaggg tcatcattat actctgaagc agaattcttc aggtactcat 240
cttt 244

<210> 1732
<211> 272
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 9, 65, 192, 210, 212
<223> n = A,T,C or G

<400> 1732
ctgggaagnc agttcgttct ctctctcct ctcttcttgt ttgaacatgg tgcggactaa 60
agcanacagt gtccaggca cttacagaaa agtgggtggct gctcgagccc ccagaaagg 120
gcttggttct tccacctctg ccactaatc gacatcagtt tcatcggagg aaagctgaaa 180
ataaatatgc angagggaac cccgtttgcn tncgcccaac tcccaagtgg caaaaaggaa 240
ttggagaatt ctttatgttg tcccctaaag at 272

<210> 1733
<211> 388
<212> DNA
<213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 1733
 anttggaaga gcatatgaac acgggccagc tagcaggatt ttcacatcaa attagaagtc 60
 tgatttttgaa taatatcatc aataagaagg agtttgggat tttggcaaag accaaatact 120
 ttcaaagtgt gaagatgcat gcgatgaata ccaacaatat cactgagcta gtgaactatt 180
 tggcaaatga ctttaagtta gatgaagctt cagtcttgat aactgaatat tcaaagcact 240
 gcgggaaacc tgtgcctcca gacactgctc cctgtgaaat tctgaagatg tttcttagtg 300
 gattatcgta aatcactgaa cctttttttc aagaaggaca agaatttttg agtctgctat 360
 taatgggacc atatttatta cagttttt 388

<210> 1734
 <211> 282
 <212> DNA
 <213> Homo sapiens

<400> 1734
 tttggaatgt aaaattaatg gtatctggta tcaagttgta agaaaaactc cccagattg 60
 ggaggtaact gaggatgatg tgaaagaatc ttcccgctctg aatttaagaa tacacctaca 120
 ctgggcagaa aaaggtgggg gagaggaagt agaagtagag gaaaagcaca actccactgg 180
 cttcaatcaa actgaggtaa ctaattagag acggaaaata aataaatcaa caaatgcccc 240
 atttttgttt tccaaaaaag atcactggca actaacaatt tt 282

<210> 1735
 <211> 268
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 1
 <223> n = A,T,C or G

<400> 1735
 ntaagccagc cttcctcaag aatgccagac agtggacaga gaagcatgca agacagaaac 60
 aaaaggctga tgaggaagag atgcttgata atctaccaga ggctgggtgac tccagagtac 120
 acaactcaac acagaaaagg aaggccagtc agctagtagg catagaaaag aaatttcac 180
 ctgatgttta ggggacttgt cctggttcat cttagttaat gtgttctttg ccaaggtgat 240
 ctaagttgcc taccttgaat tttttttt 268

<210> 1736
 <211> 478
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 2
 <223> n = A,T,C or G

<400> 1736

```

tnatagactt ttccaatggc ccccttataa caccagaaag gattgtaatc ttgggcgtat 60
tttgtgctgg catctttggc agttgtgaag atcttgtacc agagcgtggc gttgctgtac 120
gtgtcaggaa cacagtgcgg tggctgtaca gtgacgggga acaccccagg gctggccgtg 180
agggtcatgc aggctgtgaa taccacctgc tcacagtgc cgtggagggc gcagtcattc 240
gagctccacg ctgtaggcag ggtgaagggt atgtttatct cctcgtgggc ttccctgcct 300
gaaagtccaa tctgatgccc taagatgggt gagtacagat ggggtgacgtt gcgggaatac 360
cctccgaagg gtttcagtgg gtccagggtt agggtgattg agactgagat attcaccggg 420
cccagatcct ccagggcctg gggggactgg gtggaagctc gggcctgccc gctgggtca 478

```

<210> 1737

<211> 489

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 5

<223> n = A,T,C or G

<400> 1737

```

ctttttaggat ggcgagtagc agcggctcca aggctgaatt cattgtcgga gggaaatata 60
aactggtagc gaagatcggt tctggctcct tcggggacat ctatttggcg atcaacatca 120
ccaacggcga ggaagtggca gtgaagctag aatctcagaa ggccaggcat cccagattgc 180
tgtacgagag caagctctat aagattcttc aagggtgggt tggcatcccc cacatacggg 240
ggtatggtca ggaaaaagac tacaatgtac tagtcatgga tcttctggga cctagcctcg 300
aagacctctt caatttctgt tcaagaagggt tcacaatgaa aactgtactt atgttagctg 360
accagatgat cagtagaatt gaatatgtgc atacaaagaa ttttatacac agagacatta 420
aaccagataa cttcctaatt ggtattgggc gtcactgtaa taagttattc cttattgatt 480
ttggttttg 489

```

<210> 1738

<211> 262

<212> DNA

<213> Homo sapiens

<400> 1738

```

gttacagatg acatgtatgc agaacagacg gaaaatccag agaatccatt gagatgtccc 60
atcaagctct atgatttcta cctcttcaaa tgcccccaaga gtgtgaaagg ccggaatgac 120
acctttttacc tgacacctga gccagtgggt gcccccaaca gcccaatctg gtactcagtc 180
cagcctatca gcagagagca gatgggacaa atgctgacac ggatcctggg gataagagaa 240
attcaggagg ccatcgacgt gg 262

```

<210> 1739

<211> 422

<212> DNA

<213> Homo sapiens

<400> 1739

```

ccaccatcct tttgagacag ttcctatcaa caatcttgaa ccataactaat acattacttg 60
ttcctgaagt ccttttgggt tagctcataa taaaataagc aatacaaatg aattatctgt 120
attttaaggga aaagaaacat ttacaagaaa acacaaaaat ataactgtta taattcatta 180
tgaataaata tacactttga actggcctaag tacaatcttt atacattgtt taagatttaa 240
tacagtttat tagccatttt cttttttcac acaatgtata tcaaaattaa aaaaaaatac 300
tgatttatag aaaaatggca aagtacagta gttccattcc aatttgaagg gccatgaaaa 360

```

gccactgcaa gaccttttag cctaattcaa acctgtaaac atgttcagtc ttttttacct 420
gc 422

<210> 1740
<211> 92
<212> DNA
<213> Homo sapiens

<400> 1740
gctaaatacc tatctaattgt gctatgttta tcaaatacgtg tactaaaatg gaaagctagt 60
tttgagaaat tattcagaag ccttggttatt tt 92

<210> 1741
<211> 188
<212> DNA
<213> Homo sapiens

<400> 1741
tttcaattct tccaaaaggc tcaaagatcc cacgaagcat atcttcagtt atgttgaagt 60
gtaatgagcc cacataaagc ctcataggtc cagcacttcc cttttgtaaa ttgtttgccca 120
ttgctgcagc tctgtttttt tctgcctgtg atgcctgtac tatgattggc acgcctaaaa 180
ctcgttgg 188

<210> 1742
<211> 285
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 3
<223> n = A,T,C or G

<400> 1742
ttnaaaatac tttcaggctc caccaaaacg tagaactgaa agcatgtatt ttggaagaaa 60
gagatacatt ttgtatgctt tcttttcctt ttgtagattc ccagtttatt ttctaagact 120
gcaaagatca ctttgtcacc agccctggga cctgagacca aggggggtgtc ttgtgggcag 180
tgaggggggtg aggagaggct ggcatgaggt tcagtcattc cagtgaagctc caaagagggg 240
ccacctgttc tcaaaagcat gttgggggacc aggaggtaaa actgg 285

<210> 1743
<211> 117
<212> DNA
<213> Homo sapiens

<220>
<221> misc_feature
<222> 2
<223> n = A,T,C or G

<400> 1743
angatctata gacacttttag gcaaaacagg ctcataaagc aattaaaaaa tcaacaattt 60
agtaaaaaca ggctacatag tatttttggtt ttacgtttca tttgtctatt gatcttt 117

<210> 1744
 <211> 111
 <212> DNA
 <213> Homo sapiens

<400> 1744
 aaacaatggg ctaaaaataa acagtattaa aagggttaagt ttatataata catatgtaca 60
 caattagtggtg tgtttttcttt tcagacaaaa tactgaaaca aatattagtt t 111

<210> 1745
 <211> 305
 <212> DNA
 <213> Homo sapiens

<400> 1745
 ctgccagtag acccccgggc accctgaggc tgggtgggtccc tgctagtcag tgtgggtctctc 60
 tcattggaaa aggtgggatgc aagatcaagg aaatacgaga gagtacaggg gctcaggtcc 120
 aggtggcagg ggatatgcta cccaactcaa ctgagcgggc catcactatt gctggcattc 180
 cacaatccat cattgagtggt gtcaaacaga tctgcgtgggt catgtttggag tcccccccga 240
 agggcgcgac catcccgtac cggcccaagc cgtccagctc tccgggtcatc tttgcagggtg 300
 gtcag 305

<210> 1746
 <211> 319
 <212> DNA
 <213> Homo sapiens

<400> 1746
 aaaataagtg aataagcgat atttattatc tgcaagggttt ttttgtgtgt gttttttgttt 60
 ttatttttcaa tatgcaagtt aggccttaatt tttttatcta atgatcatca tgaaatgaat 120
 aagaggggctt aagaatttgt ccatttgcac tcggaaaaga atgaccagca aaagggtttac 180
 taatacctct cccttttgggg atttaaatgtc tgggtgctgcc gcctgagttt caagaattaa 240
 agctgcaaga ggactccagg agcaaaaagaa acacaatata gaggggttggg gttgttagca 300
 atttcattca aaatgccaa 319

<210> 1747
 <211> 177
 <212> DNA
 <213> Homo sapiens

<400> 1747
 aaatcctttt ccataaata aaagtacagt tttcttggtg gcagaatgaa aatcagcaac 60
 ttctagcata tagactatat aatcagattg acagcatata gaatatatta tcagacaaga 120
 tgaggaggta caaaagttac tattgctcat aatgacttac aggctaaaat tagtttt 177

<210> 1748
 <211> 237
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 9, 12, 15, 25, 172, 225
 <223> n = A,T,C or G

<400> 1748

```
ctgaaggant gnaantagac tggtnagagag aggaaggcac tgagccacat gaaggtatgt 60
acgtaggttt tgttcagtgg aaatagactg gtagagagag gaaggcactg aaccacatga 120
aggtatgtgt gtaggttttg ttcagtggaa atagactggg agagagagga angcattgaa 180
tcacatgaag gtacgtgtgt aggttttgtt cactgacttc ttcantgtct cagccag 237
```

<210> 1749

<211> 244

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 87

<223> n = A,T,C or G

<400> 1749

```
aaaaggcccc attatctgac aaaatagatg gtgaacatgc actatcccag gatatctatt 60
attatccaaa gaagtgtttc tcaaagngtg gtccatggta ctgggtccatg aattggttgc 120
taccagtcaa tgaagagata aattacttgc atcagagtgt aaatcaatac attgcttttag 180
ctattaataa aatttttgcta aaaaatcaaa tcctgtcatt gacctaaaaa gtatctctag 240
atatt 244
```

<210> 1750

<211> 289

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 247

<223> n = A,T,C or G

<400> 1750

```
aggccagcct ccaccacgca cggcgaaagg agtgaactag ctgggacaca cacacgtgtg 60
aatgcatgca agcattcact gcattcttct cgtggactcc ctaccgctct tccatagccc 120
cccctttcag cctcactgtt tctcgtgtga gcctatctgc ttgggcagtc cactcgggag 180
ggggtcattg agccaggact ccctctaaat aggaatggaa aggaccctgc agatattttt 240
atcctanttg tgaaaacaag gtgcctctga ttctctatat ccatcacag 289
```

<210> 1751

<211> 594

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 558

<223> n = A,T,C or G

<400> 1751

```
ctggttatta atcacaagtc ctggaaatgg tctaatagacc gtgaatttga taaactcggc 60
agagtctaag atccttctca tggagctgat ttccaggtag ctggggggctt tgaaggacac 120
```

```

ccccgggggc atgccatcaa ccaccacaca gccaggggta attgtgattt tcctgtaggg 180
aactttcaca ggaaaaccca taccaatagc ttcaccaa at tccgactaa agaggtcatt 240
cacttggttct cttagctgtc tagctttttc aactttcgag agtctttcat tatcatcatc 300
tggaattgtc acctgaatga tgtaaggtc ttcaacacct gatgcagtag tattaacatt 360
gggtgatgaa tttatttttc tgggagggct cttagaggag gtgctctcct taatcgccgt 420
ctcaaacatt tcgggctttt taatgatgaa ctttaattttg gctttgtttc tgagtattct 480
ctccagcctc ggaatgccaa aagtcgatgg tcttcggaat ggcacacct caggtaagcc 540
ttccacataa aagtcttncg ggaaagactc aaataacgcg aacggcacct tcac 594

```

```

<210> 1752
<211> 311
<212> DNA
<213> Homo sapiens

```

```

<400> 1752
ctgaagggtt catggctccc aaggcttggg ccgtgctgac agaatactac aaatccttgg 60
agaaagctta ggctgttaac ccagtcactc cacctttgac acattactag taacaagagg 120
ggaccacata gtctctgttg gcattttctt gtggtgtctg tctggacatg cttcctaaaa 180
acagaccatt ttccttaact tgcattcagtt ttggtctgcc ttatgagttc tgttttgaac 240
aagtgttaaca cactgatggg tttaatgtat cttttccact tattatagtt atattcctac 300
aatacaattt t 311

```

```

<210> 1753
<211> 587
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 552, 561
<223> n = A,T,C or G

```

```

<400> 1753
ctgtccatta tacaccgtca cgttgatccc tgcctccagc aactcgtcca caatgcta at 60
gactggcttc atgaagtcct cctccatggt caciaagacg ttggtagcct ggctcctcca 120
ggattgatcc tcaggaataa ttttgagctt ctttctgatg gggccattca tgagctggct 180
taaggcatct cgttgtaggt gtctcacgtg gcgctgacaa agacaaacta ggtggctctg 240
tgtgaattct agactcgact ccattgtaga cgtgggagtg cttttagtta agatgttata 300
gaagttcacc ccattctgtg tctgttcaat gatcatttct gctttccccc acagctctgt 360
ggcctctctg tagagcccct tattttacggc attcagtact tgctctgcaa ccttagacac 420
ctctgccaga cctttgtctt cgagaagaga catgctgtac aggtaaggtc cccaggagag 480
caccgaatca acaggggaga tccaggaatc acccaaggca acccccgcaa agttgcactt 540
gatggtcctt cncatgaatgg ncttataaag ctctagacca atgccag 587

```

```

<210> 1754
<211> 564
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 409
<223> n = A,T,C or G

```

<400> 1754

```

cctctctcct tggcttgcag gtggcacctt ctcaactatgt cctcacatgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggctt aaacctatga cctcatttaa ccttaacccc ttaaagggtcc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtggtcac cgcaaacatg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg gggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttcng aggacatatg 420
gaactggcag ggctcagtgc agggaggcgg aggccctggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgctg tcag 564

```

<210> 1755

<211> 214

<212> DNA

<213> Homo sapiens

<400> 1755

```

aaatgtgatg ttttgagcat caaaaagcta ctatctaaaa ggattagtct cccagtgttc 60
ttggtaaata gggaagggtta ggaaggaggc aatgatccaa tgaatataga agaactggcc 120
gattcacagg aaacttgctt tggataaggt gagtcaatgg gtgatattgt gcaggcaggg 180
agggaaattt ctttgtacaa attcatgtcc ctgg 214

```

<210> 1756

<211> 225

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 8, 9, 40, 41, 76, 88, 89, 91, 100, 143, 181, 188, 197, 201, 202, 217

<223> n = A,T,C or G

<400> 1756

```

aaaattanna catacatggt caggcagctt ctgtccatan ntaaaactatt ccttttcagt 60
ctgagtaata tgcggnntgt tcttaatnnc ncacattaan aatttatatta gattggtgaa 120
actatcttta taaaaaaaaa atncgaacat gaatgcaaac ttaccaaaca gagcccacta 180
nattgatnaa gttaatncca nnatagtttg ccatganctg ggtgg 225

```

<210> 1757

<211> 282

<212> DNA

<213> Homo sapiens

<400> 1757

```

ttgcagcctg cgatgacaca gcgaatctat gacaagttta tagctcagtt gcagacatct 60
atccggggagg aaatctctga catcaaagag gaggggaacc tagaagctgt cttgaatgcc 120
ttggataaaa ttgtggaaga aggcaaagtc cgcaaagagc cagcctggcg ccccagcggg 180
atcccagaga aggatctgca cagtgttatg gcaccctact tcctgcagca acgggacacc 240
ctgcggcgcc atgtgcagaa acaggaggcc gagaaccagc ag 282

```

<210> 1758

<211> 473

<212> DNA
<213> Homo sapiens

<400> 1758

```
ctgaaacagc ttttcaagct ctctctcctc gtcaaggatc atgagaggca ctccactcaa 60
ggggaggtgc gcaatctggt gctcttcagg cagggtcaaaa ctctcaaagt ctagaggatt 120
gaagggaaag aatTTTTtcta tttctggata ggcattcatc gaggcaggaa cagagctttt 180
tgctttaaca gtcttctcag tcatcttttt ggcagaaaag cttggctgtt tttgtttgag 240
gggtcccttg gtctttacag acttttctgt agctctgttg acagttccca aagcctttct 300
agtagcttta ggtaaggctg gtggggcatc gaacgttttg ccaaaacgtg gtgttgaaac 360
ttgagatctc ccatctaagg ctttgattga aggtccagac ccagcttca gccatcctt 420
agcaaccaca cgggtgcctg gttctccatt ttccttatcg acatagatca gag 473
```

<210> 1759
<211> 187
<212> DNA
<213> Homo sapiens

<400> 1759

```
aaacttcgcc atgatcgtgt cttctgcact catgatatgg aaaggcttga tcgtgctcac 60
aggcagttag agcccatcgc tgggtggtgt gagtggcagt atggagccgg cctttcacag 120
aggagacctc ctgttctca caaatctccg ggaagacca atcagagctg gtgaaatagt 180
tgTTTTT
```

<210> 1760
<211> 564
<212> DNA
<213> Homo sapiens

<400> 1760

```
cctctctcct tggcttgacg gtggcacctt ctcaactatgt cctcacacgg ccttttctct 60
gtggagaggg acagagagca tgagcaggct ctggtgtctc ctcttcttat aaagacacta 120
atatcaccat attagggctt aaacctatga cctcatttaa ccttaacccc ttaaagggtc 180
catctccaaa aacagtcaca tagcaggcta ctgcttcaac atatgcattt gggggagggg 240
acaccattca gttcttaaca ggggtgtcac cgcaaacatg gaaagtcaga gccttctccc 300
cttcagaatt cccgccccca cccagggatg ggggaagagga gcagagaggt atgggaagca 360
gacacggaga gtggcaggta ccatgctggg gtggctcagg agtgcttcgg aggacatatg 420
gaactggcag ggctcagtgc agggaggcgg aggccttggg agagccgtgt cctgagaagg 480
gcctgggcta caaccctggg caagttactt cacctctgag cctccgatgc tctgtgaaat 540
ggaaggaatg tgcttgctg tcag 564
```

<210> 1761
<211> 413
<212> DNA
<213> Homo sapiens

<400> 1761

```
ctgtcttctc atctatctta gcataggagt cctctgctgc cttttcaata ccgtcgtggg 60
atttctccaa agcagttttc aagtttagaa atatttcctg ggacttcagt ttctcccttt 120
cagcagcatc ttttagttgt tgaattccaa gtttaatttt ttggatttct tgattaattg 180
tggttactcg ttcatagaca gcacctcttt tttcttgaac ttattgcaa tcctcaatta 240
ctgtgcgttt gtattgctta acatcttcat gcttcttatt tattttgaat tgtgctgtgg 300
caagtttttc cttcttcaca atcatcagtc ttttgaacga attttcttca gtcttcaatt 360
tcttcagttc tgactcatca ctctcaattt ggtcctccaa gttcaggctt ctg 413
```

<210> 1762
 <211> 315
 <212> DNA
 <213> Homo sapiens

<400> 1762
 ggaaaagaaa gagctgaaaa tgcagaaagc cgaagagtta gaacttttgg atacaggaga 60
 agaaacagcg gctccactac agaccagcc ccagggtcaa tgtcctccga agaatagaagt 120
 ctttccctgg tgatgggtccc ctgccctgtc tttccagcat ccactctccc ttgtcctcct 180
 gggggcatat ctgagtcagg cagcggcttc ctgatgatgg tcgttggggg gggtgtcatg 240
 tgatgggtcc cctccagggt actaaagggt gcatgtcccc tgcttgaaca ctgaagggca 300
 ggtggtgggc catgg 315

<210> 1763
 <211> 114
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 16
 <223> n = A,T,C or G

<400> 1763
 cgaccgccta agagtngcgc tgtaagaagc aacaacctct cctcttcgtc tccgccatca 60
 gctcggcagt cgcgaagcag caaccatgcg tgagtgcac tccatccacg ttgg 114

<210> 1764
 <211> 114
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 25, 33, 38, 53, 62, 71, 81, 83, 93, 102
 <223> n = A,T,C or G

<400> 1764
 ctaatacgac tcactatacg gctcnagcgg ccttccgngc cgggggctgc tcnnggtaga 60
 tngacatgaa naccctacag ntncactgt ggnaattgaa antatccctc atgt 114

<210> 1765
 <211> 485
 <212> DNA
 <213> Homo sapiens

<400> 1765
 aaacagtaac aaaacagaaa gcaagaatca ctgaacactg ggtgcagtca gttctaagtc 60
 cttataataa ttgccaaaat tatttgaatg attcttcaag attaggctga tccctggcta 120
 aggtctgtgt aaggcagaca agcgttattg atcatatcaa gttccctaca atatcctgtc 180
 ctcaaaaccg gaagcaatga acatgatcct cttcggtttg ataaatgaac ttctgtttg 240
 gcctgcttct aggccctgcc agattctcat aacatcatat acgtaagtat agttcctcaa 300
 agtgactgac atttatttta attttgcttt gttttttttt attttctccc ccattccttt 360

```

attttgtgtt attcctgact cacttgacac tctctgatgc ctgagagatt cctgttttggg 420
atttaatatc cagggctgtg tttacagtaa aaaaagcagg cagtcacctt tagtttttcc 480
ttttt 485

```

```

<210> 1766
<211> 389
<212> DNA
<213> Homo sapiens

```

```

<400> 1766
aaaaacaaag tcttcaactt ggggtgttgag attggcaaaa ggggaagcaa gggaaaagcc 60
aaggaaagat aaaatattca gaagaaagtc aaagttatct gcaattacat gttagaacag 120
attttgcagg ttaaaaagat gttgcttaaa tatattcata aacctgttgt aagattttca 180
cttatgcagt ttcagaaaat ttagctgctt aacatatgac agaactgtat tttacaaaat 240
gacattaaaa gtcaggagag ctactcagtt aattgataaa gtagaggcaa cgtgggggag 300
ccctccccac gtttattgaa gatttgtggc tccccagcc ccgtttgcct gcatcaggct 360
aacaacctca ttcctcccat agagcctgg 389

```

```

<210> 1767
<211> 176
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature
<222> 16, 20, 21, 35, 119, 125, 133, 142, 165, 169, 176
<223> n = A,T,C or G

```

```

<400> 1767
tttttcaacg attaanaatn ntcattacat aactnggtga aactgaaaaa gtatatcata 60
tgggtacaca aggctatttg ccagcgtata ttaatatatt agaaaatatt ccttttgtna 120
tactnaatat cancatagag cnagaatcat attatcatac ttatnatant gttcan 176

```

```

<210> 1768
<211> 384
<212> DNA
<213> Homo sapiens

```

```

<400> 1768
aaaagaaatc atggtacttc ttagagcaat ttgcaaaagg ggaaaaaagt cttaggctca 60
ctccttggaa ataaatatca agtaaccata aaaatattca gccatttttc agttattcgg 120
ggagttcagg catggtccca cgcagagcat cagagttcct ctttgaaata acccagcttt 180
gccaatgaca tctcttttct caactgcata acctcccaaa acatctgatc aacatcctgc 240
tgtttcacaa gtccctgctg aatgtatcga atgtatgtaa aaaagttaca tacagaagtg 300
atcctgtatc tgcaaaaagg agaaatacaa taatagttgc ttgagtcctc taatttaatt 360
ctgtgtttac aggacttact ctgg 384

```

```

<210> 1769
<211> 111
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> misc_feature

```

<222> 91
 <223> n = A,T,C or G

<400> 1769
 aaatataaaa aattaaaagt taaaactcta gcccttcagt gaaggagacg taaaatggcg 60
 tgggtaacaa caactaccaa aaaaaaaaaa naaaaaaaaa aaaaaaaaaa a 111

<210> 1770
 <211> 225
 <212> DNA
 <213> Homo sapiens

<400> 1770
 ctggctgaag gggccgtgga gctcccggca gccacgatt agctgggcct tcttcggggc 60
 aatgcgctga agactgcgga gatctcgggc tgagccttcg ttcagcagat ccagtatttt 120
 ttggcgccca tgagccagta gctccgggct gatctgtagc tcccagcagt cctcagcctt 180
 ctctcaggc tctagggcat ccagggactc cagctttctc ttccg 225

<210> 1771
 <211> 223
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 39
 <223> n = A,T,C or G

<400> 1771
 ggccaagtaa aagctttatt tttttaaatg aaaactacna aaggcgggggt gggttgtggc 60
 gggggcaagt tgtggccctg taggaccttc ggtgactgat gatctaagtt tccggagggt 120
 tctcagagcc tctctgggtc tttcaatcgg ggatgtctga gggaccttcc gcggcatcta 180
 tgcgggcatg gttactgcct ctggtgcccc ccgcagccgc gcg 223

<210> 1772
 <211> 419
 <212> DNA
 <213> Homo sapiens

<400> 1772
 ccaagtctac aatgtcccaa tatcaaggac aaccacccta gcttcttagt gaagacaatg 60
 tacagttatc cattagatca agactacacg gtctatgagc aataatgtga tttctggaca 120
 ttgcccattgt ataatcctca ctgatgattt caagctaaag caaaccacct tatacagaga 180
 tctagaatct ctttatgttc tccagaggaa ggtggaagaa accatgggca ggagtaggaa 240
 ttgagtgata aacaattggg ctaatgaaga aaacttctct tattgttcag ttcattccaga 300
 ttataacttc aatgggacac tttagaccat tagacaattg acactggatt aaacaaattc 360
 acataatgcc aaatacacia tgtattttata gcaacgtata atttgcaaag atggacttt 419

<210> 1773
 <211> 172
 <212> DNA
 <213> Homo sapiens

<220>

<221> misc_feature
 <222> 3, 42, 66, 68, 77, 85, 104, 140
 <223> n = A,T,C or G

<400> 1773
 cgngcggctg cgggggggcac cagaggcagt ataccatgcc cncatagatg ccgcggaagg 60
 tccctnanac atcccccatt gaaanaacca ttagaggctc tganaaacct acggaaactt 120
 agatcatcag gtcaccgaan agtcctacag ggccacaaca tgccccctgc ac 172

<210> 1774
 <211> 525
 <212> DNA
 <213> Homo sapiens

<400> 1774
 ccttcactct cccctgaggc tgtcctggcc cggactgtgg ggagcacctc cccccccgg 60
 agcagggtgca caccaggtta agcagggtcca ggggctgggg tgggcagggc tagcttttgg 120
 atcctgagtg tcaactactct ctctcccag ggatgccctg gacctaaagt acatcaactc 180
 agagcctcct cggggctcct tcccctcctt tgagcctcgg aacctcctca gcctgtttga 240
 ggacacccta gacccaacct gagccccaga ctctgcctct gcacttttaa ccttttatcc 300
 tgtgtctctc ccgtcgcctt tgaaagctgg gggccctcgg gaactcccat ggtcttctct 360
 gcctggccgt gtctaataaa aagtatttga accttgggag cacccaagct tgctcatgtg 420
 gcaacatggc ccttcctggg ccttttattg atgtcatcca gggctttaac gcccctgagg 480
 ctgagccctg ctgcagaacc cacgctcctg gccttggggc agcag 525

<210> 1775
 <211> 458
 <212> DNA
 <213> Homo sapiens

<400> 1775
 aaattttcta gtcaaattaa taagcctttg tattatatgc catcctcctt tggaatgata 60
 gcggtataat taaaatagaa catttttaac acagaatact tattggtgaa gtggtctctt 120
 atgtagtctt cttttgacga gaacgttgag attttcgaac tttcagaact ttcttttttt 180
 gatgtttttt cccattcttt tgctttttct tttggctgac ctgtttctcc cactttttta 240
 tcagttcctt cacatctgct gaatctgggt ttagacatgt ttgaactcca ttcttcagtg 300
 tagcaatgat ttcaattttc tcgcaggaag ggcttggggc aaattgttta aggtctttca 360
 aggattgtag gtggatagtc ccttggttgg tgctgatgca ggaacagcga ccctttctca 420
 ctactggggg tccttgcaact ccaatcagaa ccagcaag 458

<210> 1776
 <211> 461
 <212> DNA
 <213> Homo sapiens

<400> 1776
 aaagtttcac ttccctagca aaatatcttc agtcaagaaa ttagtctttg aaaattatga 60
 aaattgttgt gggaaatatt tatacaaatt attactgata atgcacatat attttgaaac 120
 attgtttcta gaagcaataa aatataacct atttaggaga taaccctaat gatttgtaaa 180
 aaaattaact tgtagaaaag ggaaggatgt tgtgtaaaat caagtcaatt atttgagggt 240
 ttataaatat tgagtactta tgtactaagt cacaccacgc cagtcaataa ctgagaaatc 300
 aaaataaaat aataatttca aagaattaca taaatacagg gccttttgag atttttggca 360
 attgtaaaca aaaacgaatg gttttttaca ttcatgttaa ttctacgaat atttatttgg 420
 caccatgtt aggcactgag gctacacagc agtgaaatag g 461

<210> 1777
 <211> 368
 <212> DNA
 <213> Homo sapiens

<400> 1777
 ccaagttctg ctggaggagc actcaagtgt gacgagcagg gccactggac cctgcagggc 60
 tgtggtgtat atagtgcagc tttggagggt gaactctatt ttcacacttt tctatggagc 120
 cttccgagtc ccagggtttt acttgaggct gtctgtcttg atggcgggtt tcagacctcc 180
 attaacatcc ctacccagca ttctgtactt cgggggcctt ctctcttggt ataaaacttt 240
 ttaccaagtg aaacatcgat accacctttg tttccattct cactggtgta aatactgagt 300
 actaactgag aattttgact ttgcattctg tcggaatact tgtgttcaat aaaaattgaa 360
 agaaaaaa 368

<210> 1778
 <211> 554
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 211, 416, 499, 518
 <223> n = A,T,C or G

<400> 1778
 cagttatgcg aaaacatggc tgcggccggt ttggcccttc tttgtaggag agtttcatcc 60
 gccctgaaat ctccccgac gttaataact cctcagggtc ctgcctgcac aggggtttttt 120
 cttagtttgt tgccaaagag tacaccaaata gtgacatcct ttcaccaata tagattactt 180
 cataccacat tgtcaaggaa aggactagaa naattttttg atgacccaaa aaactggggg 240
 caagaaaaag taaaatcttg agcagcatgg acctgtcagc aactaaggaa caaaagtaat 300
 gaagatttac acaaactttg gtatgtctta ctgaaagaaa gaaacatgct tctaacccta 360
 gagcaggagg ccaagcggca gagattgcca atgccaagtc cagagcgggt agatanggt 420
 gtagattcca tggatgcatt agataaagtg gtccagggaa agagaagatg ccctaaggct 480
 tcttcagact ggtcaagana gagctagacc tgggtgctntg gagaaagaag acatcttttg 540
 aaagaatcat ctgg 554

<210> 1779
 <211> 379
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 42, 378
 <223> n = A,T,C or G

<400> 1779
 gtcttggtctg ggcattgacaa ccgcgtcagc tgcctggggc tnactgacga tggcatggct 60
 gtggcgacag ggtcctggga tagcttcctc aagatctgga actaacgcca gtagcatgtg 120
 gatgccatgg agactggaag accattccaa cttggacgcg ttaccatgag agcatatcct 180
 atccaaccgt actaacgtgg acaccctaca cctccccctc gaacttcaaa agggcaagat 240
 cttttttcct tcaacttattg ctgagaccaa gagcacaatt cccattgaga gaaagatctc 300
 tgtgctgtaa actaaaacaa attgtgcatt ccttccgggg ccacgtctt tgtcttcttt 360

tttgtcttga atgaattnt

379

<210> 1780

<211> 222

<212> DNA

<213> Homo sapiens

<400> 1780

```
ctggttaattg cagaatccac tttgcctgtg taagtgaaaa atatagactg ttatcttggt 60
ggccctatga aattctgcac ttttcattat atactctacc ttcattaatt acttctggca 120
agatgttctg ccttagcact cagttgcatt cttttccttt ttcttcctgt tcattatgct 180
ttaattctga ggaccatatg agggtagaat atattatctt tt 222
```

<210> 1781

<211> 292

<212> DNA

<213> Homo sapiens

<400> 1781

```
ctgctggagc aagccctgcg gaagcacaac gtggctgagc cgtgttccat caaagtcctt 60
gacaaggcta cggtagcaat aataaagctc acagatcagg agactgaagt gaaagttgac 120
atcagcttta acatggagac gggcgtccgg gcagcggagt tcatcaagaa ttacatgaag 180
aaatattcat tgctgcctta cttgatttta gtattgaaac agttccttct gcagagggac 240
ctgaatgaag tttttacagg tggaattagc tcatacagcc taattttaat gg 292
```

<210> 1782

<211> 381

<212> DNA

<213> Homo sapiens

<220>

<221> misc_feature

<222> 132

<223> n = A,T,C or G

<400> 1782

```
aaaacctgga cttttctgga agggcagcat ataaaaacat cagtcccgag gaggggacaa 60
caatactacc tcactactac atctgtgatg actgggttgtt caaacacaat ggagtgtgta 120
aggtatatgt tntataattc ataaccatag cctcgatcat caagaaatac tttcgaaatt 180
tcatttttct tcagaatata ttaagagtgc taaattttta actgcctttt tgtcgagtca 240
aactgtggga ttctgatttg tattaataatt gtaagctcct cactgggtata ctatcatcct 300
ggaggggtgt tgtatggctg agcaagagag agagagaatg agagagagac tgtgtgtgtg 360
tgtgtgtgtg tgtgtgtgca c 381
```

<210> 1783

<211> 127

<212> DNA

<213> Homo sapiens

<400> 1783

```
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<210> 1784
 <211> 259
 <212> DNA
 <213> Homo sapiens

<400> 1784
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 ctcattatca gaaattaaag aaatttctga ataaattggc agaagaacgc agacagaaga 180
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 tttaatgtta acctttttt 259

<210> 1785
 <211> 400
 <212> DNA
 <213> Homo sapiens

<400> 1785
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 tctggagaaa agtgggtgact tattgggtcca tctgaactgt ttactgtttg ttcacgcatt 180
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 tgtactggcc gcagcaaagg taattctaaa gaagagcaga ggttagaagt caaagaacat 300
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<210> 1786
 <211> 372
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 239
 <223> n = A,T,C or G

<400> 1786
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 atacagattt gagaaatgat gctaaattta tagttttcag taacttaaaa agctaacatg 180
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 acagttttga aaatttatga actatcttat ttttaggtag gttttgaaag ctttttgtct 300
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 gagtctgagt tt 372

<210> 1787
 <211> 86
 <212> DNA
 <213> Homo sapiens

<220>
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 <222> 22
 <223> n = A,T,C or G

<400> 1787

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<210> 1788

<211> 354

<212> DNA

<213> Homo sapiens

<400> 1788

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 gcatcctagc agccttctcc aaagccacat cctagtatca gaaggccagg cgagactgca 180
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<210> 1789

<211> 651

<212> DNA

<213> Homo sapiens

<400> 1789

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 atagagcatg tatttggtac ttctgttttag actcagggtt tgcaaagtcc ccaagagaag 600
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<210> 1790

<211> 388

<212> DNA

<213> Homo sapiens

<400> 1790

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 tcggaaaaac acacataaat tcaggtaaga ctaaaagctg tctcacaaaa agaaaaaaga 180
 aatccaatgg atccactaat gctatcaaaa gggacatgca ggaatgtaac atgacatttt 240
 tagaaatgtg tgtttctaaa aagaaaaaaa aatacactaa aatgccagtg gactataatt 300
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 caagatctat cacagccatc ttttggag 388

<210> 1791

<211> 2442

<212> DNA

<213> Homo sapiens

<400> 1791

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gatcttggtt actatgagga agttctagga aaactaggaa tctatgatgc tgatggtgat 180
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<210> 1792

<211> 2279

<212> DNA

<213> Homo sapiens

<400> 1792

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agagatagca agaaaacggc acaaggttat tggcactttt aggagtcctc atggccaaac 180
ccgaccccca gcttctctta agcatattca cctaattgct ctttctcaga ttaagaagg 240

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aaactggcta	aagatgctgt	gtcgacatgt	agctaacacc	atttgtaaag	cagatgctga	420
gaatcttatt	tatactgctg	atccagaatc	ctttgaagta	aatacaaaaag	atatggacag	480
tacattgagt	agagcatcaa	gagcaataaa	aaagacttca	aaaaagggtta	caagagcatt	540
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<210> 1793

<211> 1904

<212> DNA

<213> Homo sapiens

<400> 1793

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<210> 1794

<211> 2881

<212> DNA

<213> Homo sapiens

<400> 1794

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<210> 1795
<211> 422
<212> DNA
<213> Homo sapiens

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<220>
<221> misc_feature
<222> 295, 378, 390
<223> n = A,T,C or G

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gaaattaggg gctgattttt taaactgtgt gagatattaa ccagccgccc tgttataaaa 240
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gg 422

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<210> 1796
<211> 797
<212> DNA
<213> Homo sapiens

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<210> 1797

<211> 4600

<212> DNA

<213> Homo sapiens

<400> 1797

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<210> 1798

<211> 1635

<212> DNA

<213> Homo sapiens

<400> 1798

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<211> 2036

<212> DNA

<213> Homo sapiens

<400> 1799

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<210> 1800

<211> 2842

<212> DNA

<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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	35					40						45			
Leu	Gly	Leu	Lys	Glu	Arg	Ser	Thr	Ser	Glu	Pro	Ala	Val	Pro	Pro	Glu
	50					55					60				
Glu	Ala	Glu	Pro	His	Thr	Glu	Pro	Glu	Glu	Gln	Val	Pro	Val	Glu	Ala
65					70					75					80
Glu	Pro	Gln	Asn	Ile	Glu	Asp	Glu	Ala	Lys	Glu	Gln	Ile	Gln	Ser	Leu
			85						90					95	
Leu	His	Glu	Met	Val	His	Ala	Glu	His	Val	Glu	Gly	Glu	Asp	Leu	Gln
			100					105					110		
Gln	Glu	Asp	Gly	Pro	Thr	Gly	Glu	Pro	Gln	Gln	Glu	Asp	Asp	Glu	Phe
	115						120					125			
Leu	Met	Ala	Thr	Asp	Val	Asp	Asp	Arg	Phe	Glu	Thr	Leu	Glu	Leu	Glu
	130					135					140				
Val	Ser	His	Glu	Glu	Thr	Glu	His	Ser	Tyr	His	Val	Glu	Glu	Thr	Val
145					150					155					160
Ser	Gln	Asp	Cys	Asn	Gln	Asp	Met	Glu	Glu	Met	Met	Ser	Glu	Gln	Glu
			165					170						175	
Asn	Pro	Asp	Ser	Ser	Glu	Pro	Val	Val	Glu	Asp	Glu	Arg	Leu	His	His
			180					185					190		
Asp	Thr	Asp	Asp	Val	Thr	Tyr	Gln	Val	Tyr	Glu	Glu	Gln	Ala	Val	Tyr
	195						200					205			
Glu	Pro	Leu	Glu	Asn	Glu	Gly	Ile	Glu	Ile	Thr	Glu	Val	Thr	Val	Pro
	210					215					220				
Pro	Glu	Asp	Asn	Pro	Val	Glu	Asp	Ser	Gln	Val	Ile	Val	Glu	Glu	Val
225					230					235					240
Ser	Ile	Phe	Pro	Val	Glu	Glu	Gln	Gln	Glu	Val	Pro	Pro	Asp	Thr	
			245						250					255	

<210> 1807
 <211> 226
 <212> PRT
 <213> Homo sapiens

<400> 1807

Met	Pro	Leu	Ser	Gln	Ile	Lys	Lys	Val	Leu	Asp	Ile	Arg	Glu	Thr	Glu
1				5					10					15	
Asp	Cys	His	Asn	Ala	Phe	Ala	Leu	Leu	Val	Arg	Pro	Pro	Thr	Glu	Gln
			20					25					30		
Ala	Asn	Val	Leu	Leu	Ser	Phe	Gln	Met	Thr	Ser	Asp	Glu	Leu	Pro	Lys
	35						40					45			
Glu	Asn	Trp	Leu	Lys	Met	Leu	Cys	Arg	His	Val	Ala	Asn	Thr	Ile	Cys
	50					55					60				
Lys	Ala	Asp	Ala	Glu	Asn	Leu	Ile	Tyr	Thr	Ala	Asp	Pro	Glu	Ser	Phe
65					70					75					80
Glu	Val	Asn	Thr	Lys	Asp	Met	Asp	Ser	Thr	Leu	Ser	Arg	Ala	Ser	Arg
			85						90					95	
Ala	Ile	Lys	Lys	Thr	Ser	Lys	Lys	Val	Thr	Arg	Ala	Phe	Ser	Phe	Ser
			100					105					110		

Lys Thr Pro Lys Arg Ala Leu Arg Arg Ala Leu Met Thr Ser His Gly
 115 120 125
 Ser Val Glu Gly Arg Ser Pro Ser Ser Asn Asp Lys His Val Met Ser
 130 135 140
 Arg Leu Ser Ser Thr Ser Ser Leu Ala Ile Thr His Ser Val Ser Thr
 145 150 155 160
 Ser Asn Val Ile Gly Phe Thr Lys His Val Tyr Val Gln Arg Leu Asn
 165 170 175
 Ser Thr Gly Gly Arg Ser Gln Tyr Ser Trp Phe Gln Ser Val Arg His
 180 185 190
 Ser Ala Phe Arg Ala Ser Phe Ser Glu Ile Leu Glu Gly Asn Thr Asp
 195 200 205
 Phe Ser Asn Phe Lys Lys Val Leu Ser Lys Ser Ser Leu Thr Phe Val
 210 215 220
 Lys Asn
 225

<210> 1808
 <211> 52
 <212> PRT
 <213> Homo sapiens

<400> 1808
 Met Ser Val Phe Val Leu Phe Pro Asp Phe Phe Lys Val Gly Lys Thr
 1 5 10 15
 Thr Tyr Phe Tyr Leu Asp Glu Gly Ser Gly Arg Val Glu Gln Lys Gln
 20 25 30
 Ala Ile Thr Ala Ile Ser Ser Ser Phe Thr Gly Asp Cys Pro Leu Ile
 35 40 45
 Ala Asn Val Glu
 50

<210> 1809
 <211> 592
 <212> PRT
 <213> Homo sapiens

<400> 1809
 Met Ala Ser Glu Ile His Met Thr Gly Pro Met Cys Leu Ile Glu Asn
 1 5 10 15
 Thr Asn Gly Arg Leu Met Ala Asn Pro Glu Ala Leu Lys Ile Leu Ser
 20 25 30
 Ala Ile Thr Gln Pro Met Val Val Val Ala Ile Val Gly Leu Tyr Arg
 35 40 45
 Thr Gly Lys Ser Tyr Leu Met Asn Lys Leu Ala Gly Lys Lys Lys Gly
 50 55 60
 Phe Ser Leu Gly Ser Thr Val Gln Ser His Thr Lys Gly Ile Trp Met
 65 70 75 80
 Trp Cys Val Pro His Pro Lys Lys Pro Gly His Ile Leu Val Leu Leu
 85 90 95
 Asp Thr Glu Gly Leu Gly Asp Val Glu Lys Gly Asp Asn Gln Asn Asp
 100 105 110

Ser	Trp	Ile	Phe	Ala	Leu	Ala	Val	Leu	Leu	Ser	Ser	Thr	Phe	Val	Tyr
		115					120					125			
Asn	Ser	Ile	Gly	Thr	Ile	Asn	Gln	Gln	Ala	Met	Asp	Gln	Leu	Tyr	Tyr
	130					135					140				
Val	Thr	Glu	Leu	Thr	His	Arg	Ile	Arg	Ser	Lys	Ser	Ser	Pro	Asp	Glu
145					150					155					160
Asn	Glu	Asn	Glu	Val	Glu	Asp	Ser	Ala	Asp	Phe	Val	Ser	Phe	Phe	Pro
				165					170					175	
Asp	Phe	Val	Trp	Thr	Leu	Arg	Asp	Phe	Ser	Leu	Asp	Leu	Glu	Ala	Asp
			180					185					190		
Gly	Gln	Pro	Leu	Thr	Pro	Asp	Glu	Tyr	Leu	Thr	Tyr	Ser	Leu	Lys	Leu
		195					200					205			
Lys	Lys	Gly	Thr	Ser	Gln	Lys	Asp	Glu	Thr	Phe	Asn	Leu	Pro	Arg	Leu
	210					215					220				
Cys	Ile	Arg	Lys	Phe	Phe	Pro	Lys	Lys	Lys	Cys	Phe	Val	Phe	Asp	Arg
225					230					235					240
Pro	Val	His	Arg	Arg	Lys	Leu	Ala	Gln	Leu	Glu	Lys	Leu	Gln	Asp	Glu
				245					250					255	
Glu	Leu	Asp	Pro	Glu	Phe	Val	Gln	Gln	Val	Ala	Asp	Phe	Cys	Ser	Tyr
			260					265					270		
Ile	Phe	Ser	Asn	Ser	Lys	Thr	Lys	Thr	Leu	Ser	Gly	Gly	Ile	Gln	Val
		275					280					285			
Asn	Gly	Pro	Arg	Leu	Glu	Ser	Leu	Val	Leu	Thr	Tyr	Val	Asn	Ala	Ile
	290					295					300				
Ser	Ser	Gly	Asp	Leu	Pro	Cys	Met	Glu	Asn	Ala	Val	Leu	Ala	Leu	Ala
305					310					315					320
Gln	Ile	Glu	Asn	Ser	Ala	Ala	Val	Gln	Lys	Ala	Ile	Ala	His	Tyr	Glu
				325					330					335	
Gln	Gln	Met	Gly	Gln	Lys	Val	Gln	Leu	Pro	Thr	Glu	Ser	Leu	Gln	Glu
		340						345					350		
Leu	Leu	Asp	Leu	His	Arg	Asp	Ser	Glu	Arg	Glu	Ala	Ile	Glu	Val	Phe
		355					360					365			
Ile	Arg	Ser	Ser	Phe	Lys	Asp	Val	Asp	His	Leu	Phe	Gln	Lys	Glu	Leu
	370					375					380				
Ala	Ala	Gln	Leu	Glu	Lys	Lys	Arg	Asp	Asp	Phe	Cys	Lys	Gln	Asn	Gln
385					390					395					400
Glu	Ala	Ser	Ser	Asp	Arg	Cys	Ser	Gly	Leu	Leu	Gln	Val	Ile	Phe	Ser
				405				410						415	
Pro	Leu	Glu	Glu	Glu	Val	Lys	Ala	Gly	Ile	Tyr	Ser	Lys	Pro	Gly	Gly
			420					425					430		
Tyr	Arg	Leu	Phe	Val	Gln	Lys	Leu	Gln	Asp	Leu	Lys	Lys	Lys	Tyr	Tyr
	435						440					445			
Glu	Glu	Pro	Arg	Lys	Gly	Ile	Gln	Ala	Glu	Glu	Ile	Leu	Gln	Thr	Tyr
	450					455					460				
Leu	Lys	Ser	Lys	Glu	Ser	Met	Thr	Asp	Ala	Ile	Leu	Gln	Thr	Asp	Gln
465					470					475					480
Thr	Leu	Thr	Glu	Lys	Glu	Lys	Glu	Ile	Glu	Val	Glu	Arg	Val	Lys	Ala
				485				490						495	
Glu	Ser	Ala	Gln	Ala	Ser	Ala	Lys	Met	Leu	Gln	Glu	Met	Gln	Arg	Lys
			500					505					510		
Asn	Glu	Gln	Met	Met	Glu	Gln	Lys	Glu	Arg	Ser	Tyr	Gln	Glu	His	Leu
		515					520					525			
Lys	Gln	Leu	Thr	Glu	Lys	Met	Glu	Asn	Asp	Arg	Val	Gln	Leu	Leu	Lys
	530					535					540				

Glu	Gln	Glu	Arg	Thr	Leu	Ala	Leu	Lys	Leu	Gln	Glu	Gln	Glu	Gln	Leu
545					550				555						560
Leu	Lys	Glu	Gly	Phe	Gln	Lys	Glu	Ser	Arg	Ile	Met	Lys	Asn	Glu	Ile
				565					570					575	
Gln	Asp	Leu	Gln	Thr	Lys	Met	Arg	Arg	Arg	Lys	Ala	Cys	Thr	Ile	Ser
			580					585					590		

<210> 1810
 <211> 57
 <212> PRT
 <213> Homo sapiens

<400> 1810															
Cys	Phe	Lys	Ala	Ser	Gly	Gln	Ser	Ser	Ile	Ser	Phe	Lys	Thr	Leu	Phe
1				5					10					15	
Phe	Leu	Lys	Ala	Tyr	Ser	Val	Trp	Leu	Ile	Leu	Leu	Pro	Phe	Leu	Gln
			20					25					30		
Asp	Gly	Gly	Arg	Arg	Val	Asp	Thr	Gly	Gly	Arg	Leu	Arg	Asp	Thr	Val
		35				40						45			
Thr	Leu	Arg	Ser	Leu	Gln	Ile	Glu	Val							
	50					55									

<210> 1811
 <211> 148
 <212> PRT
 <213> Homo sapiens

<400> 1811															
Met	Arg	Gly	Ser	Glu	Leu	Pro	Leu	Val	Leu	Leu	Ala	Leu	Val	Leu	Cys
1				5					10					15	
Leu	Ala	Pro	Arg	Gly	Arg	Ala	Val	Pro	Leu	Pro	Ala	Gly	Gly	Gly	Thr
			20					25					30		
Val	Leu	Thr	Lys	Met	Tyr	Pro	Arg	Gly	Asn	His	Trp	Ala	Val	Gly	His
		35					40					45			
Leu	Met	Gly	Lys	Lys	Ser	Thr	Gly	Glu	Ser	Ser	Ser	Val	Ser	Glu	Arg
	50					55					60				
Gly	Ser	Leu	Lys	Gln	Gln	Leu	Arg	Glu	Tyr	Ile	Arg	Trp	Glu	Glu	Ala
65				70					75						80
Ala	Arg	Asn	Leu	Leu	Gly	Leu	Ile	Glu	Ala	Lys	Glu	Asn	Arg	Asn	His
			85						90					95	
Gln	Pro	Pro	Gln	Pro	Lys	Ala	Leu	Gly	Asn	Gln	Gln	Pro	Ser	Trp	Asp
			100					105					110		
Ser	Glu	Asp	Ser	Ser	Asn	Phe	Lys	Asp	Val	Gly	Ser	Lys	Gly	Lys	Val
		115					120					125			
Gly	Arg	Leu	Ser	Ala	Pro	Gly	Ser	Gln	Arg	Glu	Gly	Arg	Asn	Pro	Gln
	130					135					140				
Leu	Asn	Gln	Gln												
145															

<210> 1812
 <211> 474

Met 1	Val	Gln	Gln	Thr 5	Asn	Asn	Ala	Glu	Asn 10	Thr	Glu	Ala	Leu	Leu 15	Ala
Gly	Glu	Ser	Ser	Asp	Ser	Gly	Ala	Gly	Leu	Glu	Leu	Gly	Ile	Ala	Ser
			20					25					30		
Ser	Pro	Thr	Pro	Gly	Ser	Thr	Ala	Ser	Thr	Gly	Gly	Lys	Ala	Asp	Asp
		35					40					45			
Pro	Ser	Trp	Cys	Lys	Thr	Pro	Ser	Gly	His	Ile	Lys	Arg	Pro	Met	Asn
	50					55					60				
Ala	Phe	Met	Val	Trp	Ser	Gln	Ile	Glu	Arg	Arg	Lys	Ile	Met	Glu	Gln
65					70					75					80
Ser	Pro	Asp	Met	His	Asn	Ala	Glu	Ile	Ser	Lys	Arg	Leu	Gly	Lys	Arg
				85					90					95	
Trp	Lys	Leu	Leu	Lys	Asp	Ser	Asp	Lys	Ile	Pro	Phe	Ile	Arg	Glu	Ala
			100					105					110		
Glu	Arg	Leu	Arg	Leu	Lys	His	Met	Ala	Asp	Tyr	Pro	Asp	Tyr	Lys	Tyr
		115					120					125			
Arg	Pro	Arg	Lys	Lys	Val	Lys	Ser	Gly	Asn	Ala	Asn	Ser	Ser	Ser	Ser
	130					135					140				
Ala	Ala	Ala	Ser	Ser	Lys	Pro	Gly	Glu	Lys	Gly	Asp	Lys	Val	Gly	Gly
145					150					155					160
Ser	Gly	Gly	Gly	Gly	His	Gly	Gly	Gly	Gly	Gly	Gly	Gly	Ser	Ser	Asn
				165				170						175	
Ala	Gly	Gly	Gly	Gly	Gly	Gly	Ala	Ser	Gly	Gly	Gly	Ala	Asn	Ser	Lys
			180				185						190		
Pro	Ala	Gln	Lys	Lys	Ser	Cys	Gly	Ser	Lys	Val	Ala	Gly	Gly	Ala	Gly
		195					200					205			
Gly	Gly	Val	Ser	Lys	Pro	His	Ala	Lys	Leu	Ile	Leu	Ala	Gly	Gly	Gly
	210					215					220				
Gly	Gly	Gly	Lys	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ser	Phe	Ala	Ala	Glu
225				230						235					240
Gln	Ala	Gly	Ala	Ala	Ala	Leu	Leu	Pro	Leu	Gly	Ala	Ala	Ala	Asp	His
				245					250					255	
His	Ser	Leu	Tyr	Lys	Ala	Arg	Thr	Pro	Ser	Ala	Ser	Ala	Ser	Ala	Ser
			260					265					270		
Ser	Ala	Ala	Ser	Ala	Ser	Ala	Ala	Leu	Ala	Ala	Pro	Gly	Lys	His	Leu
		275					280					285			
Ala	Glu	Lys	Lys	Val	Lys	Arg	Val	Tyr	Leu	Phe	Gly	Gly	Leu	Gly	Thr
	290					295					300				
Ser	Ser	Ser	Pro	Val	Gly	Gly	Val	Gly	Ala	Gly	Ala	Asp	Pro	Ser	Asp
305					310					315					320
Pro	Leu	Gly	Leu	Tyr	Glu	Glu	Glu	Gly	Ala	Gly	Cys	Ser	Pro	Asp	Ala
				325				330						335	
Pro	Ser	Leu	Ser	Gly	Arg	Ser	Ser	Ala	Ala	Ser	Ser	Pro	Ala	Ala	Gly
			340					345					350		
Arg	Ser	Pro	Ala	Asp	His	Arg	Gly	Tyr	Ala	Ser	Leu	Arg	Ala	Al	

Phe Glu Asp Asp Leu Leu Asp Leu Asn Pro Ser Ser Asn Phe Glu Ser
 405 410 415
 Met Ser Leu Gly Ser Phe Ser Ser Ser Ser Ala Leu Asp Arg Asp Leu
 420 425 430
 Asp Phe Asn Phe Glu Pro Gly Ser Gly Ser His Phe Glu Phe Pro Asp
 435 440 445
 Tyr Cys Thr Pro Glu Val Ser Glu Met Ile Ser Gly Asp Trp Leu Glu
 450 455 460
 Ser Ser Ile Ser Asn Leu Val Phe Thr Tyr
 465 470

<210> 1813
 <211> 238
 <212> PRT
 <213> Homo sapiens

<400> 1813
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln
 50 55 60
 Ala Pro Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly
 65 70 75 80
 His Lys Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro
 85 90 95
 Glu Leu Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr
 100 105 110
 Ser Leu Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg
 115 120 125
 Glu Arg Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg
 130 135 140
 Glu His Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu
 145 150 155 160
 Thr Leu Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu
 165 170 175
 Asp Glu His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser
 180 185 190
 Pro Thr Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly
 195 200 205
 Ser Pro Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu
 210 215 220
 Ser Pro Glu Glu Gln Glu Leu Leu Asp Phe Thr Asn Trp Phe
 225 230 235

<210> 1814
 <211> 68
 <212> PRT
 <213> Homo sapiens

<400> 1814

Met	Val	Tyr	Tyr	Pro	Glu	Leu	Phe	Val	Trp	Val	Ser	Gln	Glu	Pro	Phe
1				5				10					15		
Pro	Asn	Lys	Asp	Met	Glu	Gly	Arg	Leu	Pro	Lys	Gly	Arg	Leu	Pro	Val
			20					25					30		
Pro	Lys	Glu	Val	Asn	Arg	Lys	Lys	Asn	Asp	Glu	Thr	Asn	Ala	Ala	Ser
		35					40					45			
Leu	Thr	Pro	Leu	Gly	Ser	Ser	Glu	Leu	Arg	Ser	Pro	Arg	Ile	Ser	Tyr
	50					55					60				
Leu	His	Phe	Phe												
65															

<210> 1815

<211> 572

<212> PRT

<213> Homo sapiens

<400> 1815

Met	Ser	Tyr	Gln	Gly	Lys	Lys	Ser	Ile	Pro	His	Ile	Thr	Ser	Asp	Arg
1				5				10					15		
Leu	Leu	Ile	Lys	Gly	Gly	Arg	Ile	Ile	Asn	Asp	Asp	Gln	Ser	Leu	Tyr
			20					25					30		
Ala	Asp	Val	Tyr	Leu	Glu	Asp	Gly	Leu	Ile	Lys	Gln	Ile	Gly	Glu	Asn
		35					40					45			
Leu	Ile	Val	Pro	Gly	Gly	Val	Lys	Thr	Ile	Glu	Ala	Asn	Gly	Arg	Met
	50					55					60				
Val	Ile	Pro	Gly	Gly	Ile	Asp	Val	Asn	Thr	Tyr	Leu	Gln	Lys	Pro	Ser
65					70					75				80	
Gln	Gly	Met	Thr	Ala	Ala	Asp	Asp	Phe	Phe	Gln	Gly	Thr	Arg	Ala	Ala
				85					90					95	
Leu	Val	Gly	Gly	Thr	Thr	Met	Ile	Ile	Asp	His	Val	Val	Pro	Glu	Pro
			100					105					110		
Gly	Ser	Ser	Leu	Leu	Thr	Ser	Phe	Glu	Lys	Trp	His	Glu	Ala	Ala	Asp
		115					120					125			
Thr	Lys	Ser	Cys	Cys	Asp	Tyr	Ser	Leu	His	Val	Asp	Ile	Thr	Ser	Trp
	130					135						140			
Tyr	Asp	Gly	Val	Arg	Glu	Glu	Leu	Glu	Val	Leu	Val	Gln	Asp	Lys	Gly
145					150				155					160	
Val	Asn	Ser	Phe	Gln	Val	Tyr	Met	Ala	Tyr	Lys	Asp	Val	Tyr	Gln	Met
				165					170					175	
Ser	Asp	Ser	Gln	Leu	Tyr	Glu	Ala	Phe	Thr	Phe	Leu	Lys	Gly	Leu	Gly
			180					185					190		
Ala	Val	Ile	Leu	Val	His	Ala	Glu	Asn	Gly	Asp	Leu	Ile	Ala	Gln	Glu
		195					200					205			
Gln	Lys	Arg	Ile	Leu	Glu	Met	Gly	Ile	Thr	Gly	Pro	Glu	Gly	His	Ala
	210					215					220				
Leu	Ser	Arg	Pro	Glu	Glu	Leu	Glu	Ala	Glu	Ala	Val	Phe	Arg	Ala	Ile
225					230					235				240	
Thr	Ile	Ala	Gly	Arg	Ile	Asn	Cys	Pro	Val	Tyr	Ile	Thr	Lys	Val	Met
				245					250					255	
Ser	Lys	Ser	Ala	Ala	Asp	Ile	Ile	Ala	Leu	Ala	Arg	Lys	Lys	Gly	Pro
			260					265					270		

Leu Val Phe Gly Glu Pro Ile Ala Ala Ser Leu Gly Thr Asp Gly Thr
 275 280 285
 His Tyr Trp Ser Lys Asn Trp Ala Lys Ala Ala Phe Val Thr Ser
 290 295 300
 Pro Pro Leu Ser Pro Asp Pro Thr Thr Pro Asp Tyr Leu Thr Ser Leu
 305 310 315 320
 Leu Ala Cys Gly Asp Leu Gln Val Thr Gly Ser Gly His Cys Pro Tyr
 325 330 335
 Ser Thr Ala Gln Lys Ala Val Gly Lys Asp Asn Phe Thr Leu Ile Pro
 340 345 350
 Glu Gly Val Asn Gly Ile Glu Glu Arg Met Thr Val Val Trp Asp Lys
 355 360 365
 Ala Val Ala Thr Gly Lys Met Asp Glu Asn Gln Phe Val Ala Val Thr
 370 375 380
 Ser Thr Asn Ala Ala Lys Ile Phe Asn Leu Tyr Pro Arg Lys Gly Arg
 385 390 395 400
 Ile Ala Val Gly Ser Asp Ala Asp Val Val Ile Trp Asp Pro Asp Lys
 405 410 415
 Leu Lys Thr Ile Thr Ala Lys Ser His Lys Ser Ala Val Glu Tyr Asn
 420 425 430
 Ile Phe Glu Gly Met Glu Cys His Gly Ser Pro Leu Val Val Ile Ser
 435 440 445
 Gln Gly Lys Ile Val Phe Glu Asp Gly Asn Ile Asn Val Asn Lys Gly
 450 455 460
 Met Gly Arg Phe Ile Pro Arg Lys Ala Phe Pro Glu His Leu Tyr Gln
 465 470 475 480
 Arg Val Lys Ile Arg Asn Lys Val Phe Gly Leu Gln Gly Val Ser Arg
 485 490 495
 Gly Met Tyr Asp Gly Pro Val Tyr Glu Val Pro Ala Thr Pro Lys Tyr
 500 505 510
 Ala Thr Pro Ala Pro Ser Ala Lys Ser Ser Pro Ser Lys His Gln Pro
 515 520 525
 Pro Pro Ile Arg Asn Leu His Gln Ser Asn Phe Ser Leu Ser Gly Ala
 530 535 540
 Gln Ile Asp Asp Asn Asn Pro Arg Arg Thr Gly His Arg Ile Val Ala
 545 550 555 560
 Pro Pro Gly Gly Arg Ser Asn Ile Thr Ser Leu Gly
 565 570

<210> 1816
 <211> 325
 <212> PRT
 <213> Homo sapiens

<400> 1816
 Met Thr Glu Arg Arg Arg Asp Glu Leu Ser Glu Glu Ile Asn Asn Leu
 1 5 10 15
 Arg Glu Lys Val Met Lys Gln Ser Glu Glu Asn Asn Asn Leu Gln Ser
 20 25 30
 Gln Val Gln Lys Leu Thr Glu Glu Asn Thr Thr Leu Arg Glu Gln Val
 35 40 45
 Glu Pro Thr Pro Glu Asp Glu Asp Asp Asp Ile Glu Leu Arg Gly Ala
 50 55 60

Ala	Ala	Ala	Ala	Ala	Pro	Pro	Pro	Pro	Ile	Glu	Glu	Glu	Cys	Pro	Glu
65					70					75					80
Asp	Leu	Pro	Glu	Lys	Phe	Asp	Gly	Asn	Pro	Asp	Met	Leu	Ala	Pro	Phe
				85					90					95	
Met	Ala	Gln	Cys	Gln	Ile	Phe	Met	Glu	Lys	Ser	Thr	Arg	Asp	Phe	Ser
			100					105					110		
Val	Asp	Arg	Val	Arg	Val	Cys	Phe	Val	Thr	Ser	Met	Met	Thr	Gly	Arg
		115					120					125			
Ala	Ala	Arg	Trp	Ala	Ser	Ala	Lys	Leu	Glu	Arg	Ser	His	Tyr	Leu	Met
		130				135					140				
His	Asn	Tyr	Pro	Ala	Phe	Met	Met	Glu	Met	Lys	His	Val	Phe	Glu	Asp
145					150					155					160
Pro	Gln	Arg	Arg	Glu	Val	Ala	Lys	Arg	Lys	Ile	Arg	Arg	Leu	Arg	Gln
				165				170						175	
Gly	Met	Gly	Ser	Val	Ile	Asp	Tyr	Ser	Asn	Ala	Phe	Gln	Met	Ile	Ala
			180					185					190		
Gln	Asp	Leu	Asp	Trp	Asn	Glu	Pro	Ala	Leu	Ile	Asp	Gln	Tyr	His	Glu
		195					200					205			
Gly	Leu	Ser	Asp	His	Ile	Gln	Glu	Glu	Leu	Ser	His	Leu	Glu	Val	Ala
		210				215					220				
Lys	Ser	Leu	Ser	Ala	Leu	Ile	Gly	Gln	Cys	Ile	His	Ile	Glu	Arg	Arg
225					230				235						240
Leu	Ala	Arg	Ala	Ala	Ala	Ala	Arg	Lys	Pro	Arg	Ser	Pro	Pro	Arg	Ala
				245				250						255	
Leu	Val	Leu	Pro	His	Ile	Ala	Ser	His	His	Gln	Val	Asp	Pro	Thr	Glu
			260					265					270		
Pro	Val	Gly	Gly	Ala	Arg	Met	Arg	Leu	Thr	Gln	Glu	Glu	Lys	Glu	Arg
		275				280						285			
Arg	Arg	Lys	Leu	Asn	Leu	Cys	Leu	Tyr	Cys	Gly	Thr	Gly	Gly	His	Tyr
		290				295					300				
Ala	Asp	Asn	Cys	Pro	Ala	Lys	Ala	Ser	Lys	Ser	Ser	Pro	Ala	Gly	Asn
305					310					315					320
Ser	Pro	Ala	Pro	Leu											
				325											

<210> 1817

<211> 357

<212> PRT

<213> Homo sapiens

<400> 1817

Met	Leu	Gln	Ile	His	Leu	Pro	Gly	Arg	His	Thr	Leu	Phe	Val	Arg	Ala
1				5					10					15	
Met	Ile	Asp	Ser	Gly	Ala	Ser	Gly	Asn	Phe	Ile	Asp	His	Glu	Tyr	Val
			20					25					30		
Ala	Gln	Asn	Gly	Ile	Pro	Leu	Arg	Ile	Lys	Asp	Trp	Pro	Ile	Leu	Val
		35					40					45			
Glu	Ala	Ile	Asp	Gly	Arg	Pro	Ile	Ala	Ser	Gly	Pro	Val	Val	His	Glu
		50				55					60				
Thr	His	Asp	Leu	Ile	Val	Asp	Leu	Gly	Asp	His	Arg	Glu	Val	Leu	Ser
65					70					75					80
Phe	Asp	Val	Thr	Gln	Ser	Pro	Phe	Phe	Pro	Val	Val	Leu	Gly	Val	Arg
				85					90					95	

Trp Leu Ser Thr His Asp Pro Asn Ile Thr Trp Ser Thr Arg Ser Ile
 100 105 110
 Val Phe Asp Ser Glu Tyr Cys Arg Tyr His Cys Arg Met Tyr Ser Pro
 115 120 125
 Ile Pro Pro Ser Leu Pro Pro Pro Ala Pro Gln Pro Pro Leu Tyr Tyr
 130 135 140
 Pro Val Asp Gly Tyr Arg Val Tyr Gln Pro Val Arg Tyr Tyr Tyr Val
 145 150 155 160
 Gln Asn Val Tyr Thr Pro Val Asp Glu His Val Tyr Pro Asp His Arg
 165 170 175
 Leu Val Asp Pro His Ile Glu Met Ile Pro Gly Ala His Ser Ile Pro
 180 185 190
 Ser Gly His Val Tyr Ser Leu Ser Glu Pro Glu Met Ala Ala Leu Arg
 195 200 205
 Asp Phe Val Ala Arg Asn Val Lys Asp Gly Leu Ile Thr Pro Thr Ile
 210 215 220
 Ala Pro Asn Gly Ala Gln Val Leu Gln Val Lys Arg Gly Trp Lys Leu
 225 230 235 240
 Gln Val Ser Tyr Asp Cys Arg Ala Pro Asn Asn Phe Thr Ile Gln Asn
 245 250 255
 Gln Tyr Pro Arg Leu Ser Ile Pro Asn Leu Glu Asp Gln Ala His Leu
 260 265 270
 Ala Thr Tyr Thr Glu Phe Val Pro Gln Ile Pro Gly Tyr Gln Thr Tyr
 275 280 285
 Pro Thr Tyr Ala Ala Tyr Pro Thr Tyr Pro Val Gly Phe Ala Trp Tyr
 290 295 300
 Pro Val Gly Arg Asp Gly Gln Gly Arg Ser Leu Tyr Val Pro Val Met
 305 310 315 320
 Ile Thr Trp Asn Pro His Trp Tyr Arg Gln Pro Pro Val Pro Gln Tyr
 325 330 335
 Pro Pro Pro Gln Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro Pro
 340 345 350
 Ser Tyr Ser Thr Leu
 355

<210> 1818
 <211> 102
 <212> PRT
 <213> Homo sapiens

<400> 1818
 Met Ser Thr Gly Asn Thr Val Cys Ser Arg Tyr His Phe Tyr Val Arg
 1 5 10 15
 Val Asn Gln Ala Val Ile Trp Val Asp Val Leu Ile Tyr Trp Ser Val
 20 25 30
 His Ile Leu Asp Ile Val Ile Pro His Trp Leu Val Asn Ser Val Ser
 35 40 45
 Ile Tyr Trp Ile Ile Glu Trp Arg Leu Trp Cys Trp Trp Trp Glu Arg
 50 55 60
 Trp Trp Tyr Trp Arg Ile His Pro Ala Val Val Ala Ala Val Phe Arg
 65 70 75 80
 Ile Lys Asp Asp Arg Ser Ser Ala Pro Cys Asp Ile Gly Ile Met Cys
 85 90 95

Ala Gln Pro Ala Asn Pro
100

<210> 1819
<211> 831
<212> PRT
<213> Homo sapiens

<400> 1819
Met Glu Arg Ala Gly Ala Thr Ser Arg Gly Gly Gln Ala Pro Gly Phe
1 5 10 15
Leu Leu Arg Leu His Thr Glu Gly Arg Ala Glu Ala Ala Arg Val Gln
20 25 30
Glu Gln Asp Leu Arg Gln Trp Gly Leu Thr Gly Ile His Leu Arg Ser
35 40 45
Tyr Gln Leu Glu Gly Val Asn Trp Leu Ala Gln Arg Phe His Cys Gln
50 55 60
Asn Gly Cys Ile Leu Gly Asp Glu Met Gly Leu Gly Lys Thr Cys Gln
65 70 75 80
Thr Ile Ala Leu Phe Ile Tyr Leu Ala Gly Arg Leu Asn Asp Glu Gly
85 90 95
Pro Phe Leu Ile Leu Cys Pro Leu Ser Val Leu Ser Asn Trp Lys Glu
100 105 110
Glu Met Gln Arg Phe Ala Pro Gly Leu Ser Cys Val Thr Tyr Ala Gly
115 120 125
Asp Lys Glu Glu Arg Ala Cys Leu Gln Gln Asp Leu Lys Gln Glu Ser
130 135 140
Arg Phe His Val Leu Leu Thr Thr Tyr Glu Ile Cys Leu Lys Asp Ala
145 150 155 160
Ser Phe Leu Lys Ser Phe Pro Trp Ser Val Leu Val Val Asp Glu Ala
165 170 175
His Arg Leu Lys Asn Gln Ser Ser Leu Leu His Lys Thr Leu Ser Glu
180 185 190
Phe Ser Val Val Phe Ser Leu Leu Leu Thr Gly Thr Pro Ile Gln Asn
195 200 205
Ser Leu Gln Glu Leu Tyr Ser Leu Leu Ser Phe Val Glu Pro Asp Leu
210 215 220
Phe Ser Lys Glu Glu Val Gly Asp Phe Ile Gln Arg Tyr Gln Asp Ile
225 230 235 240
Glu Lys Glu Ser Glu Ser Ala Ser Glu Leu His Lys Leu Leu Gln Pro
245 250 255
Phe Leu Leu Arg Arg Val Lys Ala Glu Val Ala Thr Glu Leu Pro Lys
260 265 270
Lys Thr Glu Val Val Ile Tyr His Gly Met Ser Ala Leu Gln Lys Lys
275 280 285
Tyr Tyr Lys Ala Ile Leu Met Lys Asp Leu Asp Ala Phe Glu Asn Glu
290 295 300
Thr Ala Lys Lys Val Lys Leu Gln Asn Ile Leu Ser Gln Leu Arg Lys
305 310 315 320
Cys Val Asp His Pro Tyr Leu Phe Asp Gly Val Glu Pro Glu Pro Phe
325 330 335
Glu Val Gly Asp His Leu Thr Glu Ala Ser Gly Lys Leu His Leu Leu
340 345 350

Asp	Lys	Leu	Leu	Ala	Phe	Leu	Tyr	Ser	Gly	Gly	His	Arg	Val	Leu	Leu
		355					360					365			
Phe	Ser	Gln	Met	Thr	Gln	Met	Leu	Asp	Ile	Leu	Gln	Asp	Tyr	Met	Asp
	370					375					380				
Tyr	Arg	Gly	Tyr	Ser	Tyr	Glu	Arg	Val	Asp	Gly	Ser	Val	Arg	Gly	Glu
385					390					395					400
Glu	Arg	His	Leu	Ala	Ile	Lys	Asn	Phe	Gly	Gln	Gln	Pro	Ile	Phe	Val
				405					410					415	
Phe	Leu	Leu	Ser	Thr	Arg	Ala	Gly	Gly	Val	Gly	Met	Asn	Leu	Thr	Ala
			420				425						430		
Ala	Asp	Thr	Val	Ile	Phe	Val	Asp	Ser	Asp	Phe	Asn	Pro	Gln	Asn	Asp
	435						440					445			
Leu	Gln	Ala	Ala	Ala	Arg	Ala	His	Arg	Ile	Gly	Gln	Asn	Lys	Ser	Val
	450					455					460				
Lys	Val	Ile	Arg	Leu	Ile	Gly	Arg	Asp	Thr	Val	Glu	Glu	Ile	Val	Tyr
465					470					475					480
Arg	Lys	Ala	Ala	Ser	Lys	Leu	Gln	Leu	Thr	Asn	Met	Ile	Ile	Glu	Gly
				485					490					495	
Gly	His	Phe	Thr	Leu	Gly	Ala	Gln	Lys	Pro	Ala	Ala	Asp	Ala	Asp	Leu
			500				505						510		
Gln	Leu	Ser	Glu	Ile	Leu	Lys	Phe	Gly	Leu	Asp	Lys	Leu	Leu	Ala	Ser
		515					520					525			
Glu	Gly	Ser	Thr	Met	Asp	Glu	Ile	Asp	Leu	Glu	Ser	Ile	Leu	Gly	Glu
	530					535					540				
Thr	Lys	Asp	Gly	Gln	Trp	Val	Ser	Asp	Ala	Leu	Pro	Ala	Ala	Glu	Gly
545					550					555					560
Gly	Ser	Arg	Asp	Gln	Glu	Glu	Gly	Lys	Asn	His	Met	Tyr	Leu	Phe	Glu
				565					570					575	
Gly	Lys	Asp	Tyr	Ser	Lys	Glu	Pro	Ser	Lys	Glu	Asp	Arg	Lys	Ser	Phe
			580					585					590		
Glu	Gln	Leu	Val	Asn	Leu	Gln	Lys	Thr	Leu	Leu	Glu	Lys	Ala	Ser	Gln
		595					600					605			
Glu	Gly	Arg	Ser	Leu	Arg	Asn	Lys	Gly	Ser	Val	Leu	Ile	Pro	Gly	Leu
	610					615					620				
Val	Glu	Gly	Ser	Thr	Lys	Arg	Lys	Arg	Val	Leu	Ser	Pro	Glu	Glu	Leu
625					630					635					640
Glu	Asp	Arg	Gln	Lys	Lys	Arg	Gln	Glu	Ala	Ala	Ala	Lys	Arg	Arg	Arg
				645					650					655	
Leu	Ile	Glu	Glu	Lys	Lys	Arg	Gln	Lys	Glu	Glu	Ala	Glu	His	Lys	Lys
				660				665					670		
Lys	Val	Ala	Trp	Trp	Glu	Ser	Asn	Asn	Tyr	Gln	Ser	Phe	Cys	Leu	Pro
		675					680					685			
Ser	Glu	Glu	Ser	Glu	Pro	Glu	Asp	Leu	Glu	Asn	Gly	Glu	Glu	Ser	Ser
	690					695					700				
Ala	Glu	Leu	Asp	Tyr	Gln	Asp	Pro	Asp	Ala	Thr	Ser	Leu	Lys	Tyr	Val
705					710					715					720
Ser	Gly	Asp	Val	Thr	His	Pro	Gln	Ala	Gly	Ala	Glu	Asp	Ala	Leu	Ile
				725					730					735	
Val	His	Cys	Val	Asp	Asp	Ser	Gly	His	Trp	Gly	Arg	Gly	Gly	Leu	Phe
			740				745						750		
Thr	Ala	Leu	Glu	Lys	Arg	Ser	Ala	Glu	Pro	Arg	Lys	Ile	Tyr	Glu	Leu
		755					760					765			
Ala	Gly	Lys	Met	Lys	Asp	Leu	Ser	Leu	Gly	Gly	Val	Leu	Leu	Phe	Pro
	770					775					780				

Val	Asp	Asp	Lys	Glu	Ser	Arg	Asn	Lys	Gly	Gln	Asp	Leu	Leu	Ala	Leu
785					790					795					800
Ile	Val	Ala	Gln	His	Arg	Asp	Arg	Ser	Asn	Val	Leu	Ser	Gly	Ile	Lys
				805					810					815	
Met	Ala	Ala	Leu	Glu	Glu	Gly	Leu	Lys	Lys	Ile	Phe	Leu	Ala	Ala	
			820					825					830		

<210> 1820
 <211> 212
 <212> PRT
 <213> Homo sapiens

<400> 1820

Met	Leu	Asn	Lys	Val	Leu	Ser	Arg	Leu	Gly	Val	Ala	Gly	Gln	Trp	Arg
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Phe	Val	Asp	Val	Leu	Gly	Leu	Glu	Glu	Glu	Ser	Leu	Gly	Ser	Val	Pro
			20					25					30		
Ala	Pro	Ala	Cys	Ala	Leu	Leu	Leu	Leu	Phe	Pro	Leu	Thr	Ala	Gln	His
		35					40					45			
Glu	Asn	Phe	Arg	Lys	Lys	Gln	Ile	Glu	Glu	Leu	Lys	Gly	Gln	Glu	Val
	50					55					60				
Ser	Pro	Lys	Val	Tyr	Phe	Met	Lys	Gln	Thr	Ile	Gly	Asn	Ser	Cys	Gly
65				70					75					80	
Thr	Ile	Gly	Leu	Ile	His	Ala	Val	Ala	Asn	Asn	Gln	Asp	Lys	Leu	Gly
			85					90						95	
Phe	Glu	Asp	Gly	Ser	Val	Leu	Lys	Gln	Phe	Leu	Ser	Glu	Thr	Glu	Lys
			100					105					110		
Met	Ser	Pro	Glu	Asp	Arg	Ala	Lys	Cys	Phe	Glu	Lys	Asn	Glu	Ala	Ile
		115					120					125			
Gln	Ala	Ala	His	Asp	Ala	Val	Ala	Gln	Glu	Gly	Gln	Cys	Arg	Val	Asp
	130					135					140				
Asp	Lys	Val	Asn	Phe	His	Phe	Ile	Leu	Phe	Asn	Asn	Val	Asp	Gly	His
145				150					155					160	
Leu	Tyr	Glu	Leu	Asp	Gly	Arg	Met	Pro	Phe	Pro	Val	Asn	His	Gly	Ala
			165					170						175	
Ser	Ser	Glu	Asp	Thr	Leu	Leu	Lys	Asp	Ala	Ala	Lys	Val	Cys	Arg	Glu
		180					185						190		
Phe	Thr	Glu	Arg	Glu	Gln	Gly	Glu	Val	Arg	Phe	Ser	Ala	Val	Ala	Leu
	195					200						205			
Cys	Lys	Ala	Ala												
	210														

<210> 1821
 <211> 323
 <212> PRT
 <213> Homo sapiens

<400> 1821

Met	Asp	Ser	Lys	Tyr	Gln	Cys	Val	Lys	Leu	Asn	Asp	Gly	His	Phe	Met
1				5					10					15	
Pro	Val	Leu	Gly	Phe	Gly	Thr	Tyr	Ala	Pro	Ala	Glu	Val	Pro	Lys	Ser
			20					25					30		

Lys Ala Leu Glu Ala Val Lys Leu Ala Ile Glu Ala Gly Tyr His His
 35 40 45
 Ile Asp Ser Ala His Val Tyr Asn Asn Glu Glu Gln Val Gly Leu Ala
 50 55 60
 Ile Arg Ser Lys Ile Ala Asp Gly Ser Val Lys Arg Glu Asp Ile Phe
 65 70 75 80
 Tyr Thr Ser Lys Leu Trp Ser Asn Ser His Arg Pro Glu Leu Val Arg
 85 90 95
 Pro Ala Leu Glu Arg Ser Leu Lys Asn Leu Gln Leu Asp Tyr Ala Asp
 100 105 110
 Leu Tyr Leu Ile His Phe Pro Val Ser Val Lys Pro Gly Glu Glu Val
 115 120 125
 Ile Pro Lys Asp Glu Asn Gly Lys Ile Leu Phe Asp Thr Val Asp Leu
 130 135 140
 Cys Ala Thr Trp Glu Ala Met Glu Lys Cys Lys Asp Ala Gly Leu Ala
 145 150 155 160
 Lys Ser Ile Gly Val Ser Asn Phe Asn His Arg Leu Leu Glu Met Ile
 165 170 175
 Leu Asn Glu Pro Gly Leu Lys Tyr Glu Pro Val Cys Asn Gln Val Glu
 180 185 190
 Cys His Pro Tyr Phe Asn Gln Arg Lys Leu Leu Asp Phe Cys Lys Ser
 195 200 205
 Lys Asp Ile Val Leu Val Ala Tyr Ser Ala Leu Gly Ser His Arg Glu
 210 215 220
 Glu Pro Trp Val Asp Pro Asn Ser Pro Val Leu Leu Glu Asp Pro Val
 225 230 235 240
 Leu Cys Ala Leu Ala Lys Lys His Lys Arg Thr Pro Ala Leu Ile Ala
 245 250 255
 Leu Arg Tyr Gln Leu Gln Arg Gly Val Val Val Leu Ala Lys Ser Tyr
 260 265 270
 Asn Glu Gln Arg Ile Arg Gln Asn Val Gln Val Phe Glu Phe Gln Leu
 275 280 285
 Thr Ser Glu Glu Met Lys Ala Ile Asp Gly Leu Asn Arg Asn Val Arg
 290 295 300
 Tyr Leu Thr Leu Asp Ile Phe Ala Gly Pro Pro Asn Tyr Pro Ile Ser
 305 310 315 320
 Asp Glu Tyr

<210> 1822
 <211> 141
 <212> PRT
 <213> Homo sapiens

<400> 1822
 Met Gly Phe Gln Lys Phe Ser Pro Phe Leu Ala Leu Ser Ile Leu Val
 1 5 10 15
 Leu Leu Gln Ala Gly Ser Leu His Ala Ala Pro Phe Arg Ser Ala Leu
 20 25 30
 Glu Ser Ser Pro Ala Asp Pro Ala Thr Leu Ser Glu Asp Glu Ala Arg
 35 40 45
 Leu Leu Leu Ala Ala Leu Val Gln Asp Tyr Val Gln Met Lys Ala Ser
 50 55 60

Glu	Leu	Glu	Gln	Glu	Gln	Glu	Arg	Glu	Gly	Ser	Ser	Leu	Asp	Ser	Pro
65					70					75					80
Arg	Ser	Lys	Arg	Cys	Gly	Asn	Leu	Ser	Thr	Cys	Met	Leu	Gly	Thr	Tyr
				85					90					95	
Thr	Gln	Asp	Phe	Asn	Lys	Phe	His	Thr	Phe	Pro	Gln	Thr	Ala	Ile	Gly
			100					105					110		
Val	Gly	Ala	Pro	Gly	Lys	Lys	Arg	Asp	Met	Ser	Ser	Asp	Leu	Glu	Arg
		115					120					125			
Asp	His	Arg	Pro	His	Val	Ser	Met	Pro	Gln	Asn	Ala	Asn			
	130					135					140				

<210> 1823

<211> 6188

<212> DNA

<213> Homo sapiens

<400> 1823

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gtcggaggag	aacaacaacc	tgcagagcca	ggtgcagaag	ctcacagagg	agaacaccac	180
ccttcgagag	caagtggaa	ccacccctga	ggatgaggat	gatgacatcg	agctccgcgg	240
tgtctgcagca	gctgctgccc	cacccctcc	aatagaggaa	gagtgccag	aagacctccc	300
agagaagttc	gatggcaacc	cagacatgct	ggctcctttc	atggcccagt	gccagatctt	360
catggaaaag	agcaccagg	atttctcagt	tgatcgtgtc	cgtgtctgct	tcgtgacaag	420
catgatgacc	ggccgtgctg	cccgttgggc	ctcagcaaag	ctggagcgct	cccactacct	480
gatgcacaac	taccagctt	tcatgatgga	aatgaagcat	gtctttgaag	acctcagag	540
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cgggtgaagtt	tcacttttca	tcagcatcat	ctttcacatg	ttcattatca	tccgctctta	3960
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aaaaggatat	aaaat	aagagaaacc	taattggcta	tttaatccaa	aacaactttt	4320
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gacagtgagg	tatttgtctt	agtggaaaaa	aggagaatta	gtctgatcaa	atcgtgaagt	5280
aatacagtga	acttgcaggt	gcacaaaata	agagggccac	atctatatgg	tgcagtctgg	5340
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<210> 1824
<211> 866
<212> DNA
<213> Homo sapiens

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<400> 1824
ggcagagcca caggaaggat gaggaagacc aggcctctggg ggctgctgtg gatgctcttt 60
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cagaccctgg atgtgaaatg tgactacacg ctagagaagt ttgccagcag ccagaaagct 180
tggcagataa taagggacgg agagatgccc aagaccctgg catgcacaga gaggccttca 240
aagaattccc atccagtcca agtggggagg atcactactag aagactacca tgatcatggg 300
ttactgcgcg tccgaatggg caaccttcaa gtggaagatt ctggactgta tcagtgtgtg 360
atctaccagc ctcccaagga gcctcacatg ctgttcgata gcatccgctt ggtgggtgacc 420
aagggttttt cagggacccc tggctccaat gagaattcta cccagaatgt gtataagatt 480
cctcctacca ccactaaggc cttgtgcccc ctctatacca gccccagAAC tgtgacccaa 540
gctccacca agtcaactgc cgatgtctcc actcctgact ctgaaatcaa ccttacaaat 600
gtgacagata tcatcagggt tccgggtgtt aacattgtca ttctcctggc tgggtggattc 660
ctgagtaaga gcctgggtctt ctctgtcctg tttgctgtca cgctgaggtc atttgtaccc 720
taggcccacg aaccacagag aatgtcctct gacttccagc cacatccatc tggcagttgt 780
gccaagggag gagggaggag gtaaaaggca gggagttaat aacatgaatt aaatctgtaa 840
tcaccrgcta aaaaaaaaaa aaaaaa 866

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<210> 1825
<211> 234
<212> PRT
<213> Homo sapiens

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<400> 1825
Met Arg Lys Thr Arg Leu Trp Gly Leu Leu Trp Met Leu Phe Val Ser
1          5          10          15
Glu Leu Arg Ala Ala Thr Lys Leu Thr Glu Glu Lys Tyr Glu Leu Lys
20          25          30
Glu Gly Gln Thr Leu Asp Val Lys Cys Asp Tyr Thr Leu Glu Lys Phe
35          40          45
Ala Ser Ser Gln Lys Ala Trp Gln Ile Ile Arg Asp Gly Glu Met Pro
50          55          60
Lys Thr Leu Ala Cys Thr Glu Arg Pro Ser Lys Asn Ser His Pro Val

```


65					70					75					80
Gln	Val	Gly	Arg	Ile	Ile	Leu	Glu	Asp	Tyr	His	Asp	His	Gly	Leu	Leu
				85					90					95	
Arg	Val	Arg	Met	Val	Asn	Leu	Gln	Val	Glu	Asp	Ser	Gly	Leu	Tyr	Gln
			100						105				110		
Cys	Val	Ile	Tyr	Gln	Pro	Pro	Lys	Glu	Pro	His	Met	Leu	Phe	Asp	Arg
		115					120					125			
Ile	Arg	Leu	Val	Val	Thr	Lys	Gly	Phe	Ser	Gly	Thr	Pro	Gly	Ser	Asn
	130					135					140				
Glu	Asn	Ser	Thr	Gln	Asn	Val	Tyr	Lys	Ile	Pro	Pro	Thr	Thr	Thr	Lys
145					150					155					160
Ala	Leu	Cys	Pro	Leu	Tyr	Thr	Ser	Pro	Arg	Thr	Val	Thr	Gln	Ala	Pro
				165					170				175		
Pro	Lys	Ser	Thr	Ala	Asp	Val	Ser	Thr	Pro	Asp	Ser	Glu	Ile	Asn	Leu
			180						185				190		
Thr	Asn	Val	Thr	Asp	Ile	Ile	Arg	Val	Pro	Val	Phe	Asn	Ile	Val	Ile
	195					200					205				
Leu	Leu	Ala	Gly	Gly	Phe	Leu	Ser	Lys	Ser	Leu	Val	Phe	Ser	Val	Leu
	210					215					220				
Phe	Ala	Val	Thr	Leu	Arg	Ser	Phe	Val	Pro						
225					230										

<210> 1826
 <211> 192
 <212> DNA
 <213> Homo sapiens

<400> 1826
 atgcggtgcc acgcccatgg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60
 gggccgagga gtggaggggc tcaggcgaag ctgggggtgct gttgggggta tccgagtccc 120
 agaagcacct ggaaccccga cagaagattc tggactcccc agacgggacc aggagaggga 180
 cggcatgagc ga 192

<210> 1827
 <211> 288
 <212> DNA
 <213> Homo sapiens

<400> 1827
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120
 aggatacagc tgagatccca gtgcgcgaca tggaaggatg tctgcaagag ctgcatcagt 180
 caaacaccgg ggataaatct ggatttgggt tccggcgta aggtgaagat aatacctaaa 240
 gaggaacact gtaaaatgcc agaagcaggt gaagagcaac cacaagtt 288

<210> 1828
 <211> 141
 <212> DNA
 <213> Homo sapiens

<400> 1828
 cacacacaaa cacagaacca cacagccagt cccaggagcc cagtaatgga gagccccaaa 60
 aagaagaacc agcagctgaa agtcgggatc ctacacctgg gcagcagaca gaagaagatc 120

aggatacagc tgagatccca g

141

<210> 1829

<211> 111

<212> DNA

<213> Homo sapiens

<400> 1829

gtgctgggaa gggaaatgcg cgacatggaa ggtgatctgc aagagctgca tcagtcaaac 60
 accggggata aatctggatt tgggttccgg cgtcaagggtg aagataatac c 111

<210> 1830

<211> 64

<212> PRT

<213> Homo sapiens

<400> 1830

Met	Arg	Cys	His	Ala	His	Gly	Pro	Ser	Cys	Leu	Val	Thr	Ala	Ile	Thr
1				5					10					15	
Arg	Glu	Glu	Gly	Gly	Pro	Arg	Ser	Gly	Gly	Ala	Gln	Ala	Lys	Leu	Gly
			20					25					30		
Cys	Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg	Ser	Thr	Trp	Asn	Pro	Asp	Arg
		35					40					45			
Arg	Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro	Gly	Glu	Gly	Arg	His	Glu	Arg
	50					55					60				

<210> 1831

<211> 96

<212> PRT

<213> Homo sapiens

<400> 1831

His	Thr	Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met
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Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His
			20					25					30		
Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys
		35					40					45			
Ala	Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly
	50					55					60				
Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys
65					70				75					80	
Glu	Glu	His	Cys	Lys	Met	Pro	Glu	Ala	Gly	Glu	Glu	Gln	Pro	Gln	Val
			85						90					95	

<210> 1832

<211> 47

<212> PRT

<213> Homo sapiens

<400> 1832

His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met

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<400> 1836
Ala Phe Phe Val Gln Thr Cys Arg Glu Glu His Lys Lys Lys Asn Pro
 1           5             10          15
Glu Val Pro Val
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20

<210> 1837
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1837
 Glu Glu His Lys Lys Lys Asn Pro Glu Val Pro Val Asn Phe Ala Glu
 1 5 10 15
 Phe Ser Lys Lys
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<210> 1838
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1838
 Glu Val Pro Val Asn Phe Ala Glu Phe Ser Lys Lys Cys Ser Glu Arg
 1 5 10 15
 Trp Lys Thr Val
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<210> 1839
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1839
 Phe Ser Lys Lys Cys Ser Glu Arg Trp Lys Thr Val Ser Gly Lys Glu
 1 5 10 15
 Lys Ser Lys Phe
 20

<210> 1840
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1840
 Trp Lys Thr Val Ser Gly Lys Glu Lys Ser Lys Phe Asp Glu Met Ala
 1 5 10 15
 Lys Ala Asp Lys
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<210> 1841
 <211> 20
 <212> PRT

<400> 1841

<210> 1842

<212> PRT

<400> 1842

<210> 1843

<212> PRT

<400> 1843

<210> 1844

<212> PRT

<400> 1844

<210> 1845

<211> 20

<212> PRT

<400> 1845

Asp Pro Asn Ala Pro Lys Arg Pro Pro Ser Gly Phe Phe Leu Phe Cys
1 5 10 15
Ser Glu Phe Arg

20

<210> 1846
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1846
 Pro Ser Gly Phe Phe Leu Phe Cys Ser Glu Phe Arg Pro Lys Ile Lys
 1 5 10 15
 Ser Thr Asn Pro
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<210> 1847
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1847
 Ser Glu Phe Arg Pro Lys Ile Lys Ser Thr Asn Pro Gly Ile Ser Ile
 1 5 10 15
 Gly Asp Val Ala
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<210> 1848
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1848
 Ser Thr Asn Pro Gly Ile Ser Ile Gly Asp Val Ala Lys Lys Leu Gly
 1 5 10 15
 Glu Met Trp Asn
 20

<210> 1849
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1849
 Gly Asp Val Ala Lys Lys Leu Gly Glu Met Trp Asn Asn Leu Asn Asp
 1 5 10 15
 Ser Glu Lys Gln
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<210> 1850
 <211> 20
 <212> PRT

<400> 1850

<210> 1851

<212> PRT

<400> 1851

<210> 1852

<212> PRT

<400> 1852

<210> 1853

<212> PRT

<400> 1853

<210> 1854

<212> PRT

<400> 1854

Lys Ser Lys Gly Lys Phe Asp Gly Ala Lys Gly Pro Ala Lys Val Ala
1 5 10 15
Arg Lys Lys Val

20

<210> 1855
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1855
 Ala Lys Gly Pro Ala Lys Val Ala Arg Lys Lys Val Glu Glu Glu Asp
 1 5 10 15
 Glu Glu Glu Glu
 20

<210> 1856
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1856
 Arg Lys Lys Val Glu Glu Glu Asp Glu Glu Gln Glu Glu Glu Glu Glu
 1 5 10 15
 Glu Glu Glu Glu
 20

<210> 1857
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1857
 agtgcgaatt cgggctgcgt gcaggagg 28

<210> 1858
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1858
 ggactcgagc tactgcaagt ctggtgtgga tg 32

<210> 1859
 <211> 33
 <212> DNA
 <213> Artificial Sequence

<220>

<223> PCR primer

<400> 1859

agatgaattc acgcgtccgc gccgcgcggc gca

33

<210> 1860

<211> 31

<212> DNA

<213> Artificial Sequence

<220>

<223> PCR primer

<400> 1860

agttctcgag tcacctccct gggccccttt g

31

<210> 1861

<211> 945

<212> DNA

<213> Homo sapiens

<400> 1861

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accgttcata	tcgggcctac	cgccttcctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgcacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
gcgcttaacg	ggcatcatcc	cggtgacgtc	atctcggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaacgt	gacattggcc	gagggacccc	cggccgaatt	cacgcgtccg	420
cgccgcgcgg	cgcaggggag	gcgagaggcg	ccccccggtg	gagagcctga	gccccgcgca	480
agtctggcgg	cacctggcga	gcggagccgg	agtcgggctg	gggaccgcgg	ggttgaggcc	540
ggaccgcggc	ggggtcgggg	gagaaacgcg	cgtgcccctg	gcacggggccc	caaccccccg	600
gccgcgcgga	atggtatggc	ccggccggag	ttaaggccgg	ggggaggcgg	cgagtcccgc	660
ggcggcgggc	acgatggggc	tgcgtgcagg	aggaacgctg	ggcagggccg	gcgcgggtcg	720
ggggggcgccc	gagggggccc	ggccgagcgg	cggcgcgcag	ggcggcagca	tccactcggg	780
ccgcctcgcc	gcggtgcaca	acgtgccgct	gagcgtgctc	atccggccgc	tgccgtccgt	840
gttggacccc	gccaaagggt	agagcctcgt	ggacacgata	cgggaggacc	cagacagcgt	900
gccccccatc	gatgtcctct	ggatcaaagg	ggcccaggga	ggtga		945

<210> 1862

<211> 822

<212> DNA

<213> Homo sapiens

<400> 1862

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accgttcata	tcgggcctac	cgccttcctc	ggcttgggtg	ttgtcgacaa	caacggcaac	180
ggcgcacgag	tccaacgcgt	ggtcgggagc	gctccggcgg	caagtctcgg	catctccacc	240
ggcgacgtga	tcaccgcggt	cgacggcgct	ccgatcaact	cggccaccgc	gatggcggac	300
gcgcttaacg	ggcatcatcc	cggtgacgtc	atctcggtga	cctggcaaac	caagtcgggc	360
ggcacgcgta	cagggaaacgt	gacattggcc	gagggacccc	cggccgaatt	cgggctgcgt	420
gcaggaggaa	cgctgggcag	ggccggcgcg	ggtcgggggg	cgcccagggg	gcccggggccg	480


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<210> 1863
<211> 314
<212> PRT
<213> Homo sapiens
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[illegible]

<210> 1864
 <211> 273
 <212> PRT
 <213> Homo sapiens

<400> 1864
 Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 1 5 10 15
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Pro Thr Val His Ile Gly Pro Thr Ala
 35 40 45
 Phe Leu Gly Leu Gly Val Val Asp Asn Asn Gly Asn Gly Ala Arg Val
 50 55 60
 Gln Arg Val Val Gly Ser Ala Pro Ala Ala Ser Leu Gly Ile Ser Thr
 65 70 75 80
 Gly Asp Val Ile Thr Ala Val Asp Gly Ala Pro Ile Asn Ser Ala Thr
 85 90 95
 Ala Met Ala Asp Ala Leu Asn Gly His His Pro Gly Asp Val Ile Ser
 100 105 110
 Val Thr Trp Gln Thr Lys Ser Gly Gly Thr Arg Thr Gly Asn Val Thr
 115 120 125
 Leu Ala Glu Gly Pro Pro Ala Glu Phe Gly Leu Arg Ala Gly Gly Thr
 130 135 140
 Leu Gly Arg Ala Gly Ala Gly Arg Gly Ala Pro Glu Gly Pro Gly Pro
 145 150 155 160
 Ser Gly Gly Ala Gln Gly Gly Ser Ile His Ser Gly Arg Ile Ala Ala
 165 170 175
 Val His Asn Val Pro Leu Ser Val Leu Ile Arg Pro Leu Pro Ser Val
 180 185 190
 Leu Asp Pro Ala Lys Val Gln Ser Leu Val Asp Thr Ile Arg Glu Asp
 195 200 205
 Pro Asp Ser Val Pro Pro Ile Asp Val Leu Trp Ile Lys Gly Ala Gln
 210 215 220
 Gly Gly Asp Tyr Phe Tyr Ser Phe Gly Gly Cys His Arg Tyr Ala Ala
 225 230 235 240
 Tyr Gln Gln Leu Gln Arg Glu Thr Ile Pro Ala Lys Leu Val Gln Ser
 245 250 255
 Thr Leu Ser Asp Leu Arg Val Tyr Leu Gly Ala Ser Thr Pro Asp Leu
 260 265 270
 Gln

<210> 1865
 <211> 790
 <212> DNA
 <213> Homo sapiens

<400> 1865
 ctgattccgc gactccttgg ccgccgctgc gcatggaaag ctctgccaaag atggagagcg 60
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 gtttctttgc cacggccgca gccgcggcgg ccgcagccgc cgcagcggca gcgcagagcg 180

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cgcagcagca gcagcagcag cagcagcagc agcagcaggc gccgcagctg agaccggcgg 240
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gctcgtcttc gccgaactg atgcgctgca aacgccggct caacttcagc ggctttggct 360
acagcctgcc gcagcagcag ccggccgccc tggcgcgccc caacgagcgc gagcgcaacc 420
gcgtcaagtt ggtcaacctg ggctttgccca cccttcggga gcacgtcccc aacggcgcg 480
ccaacaagaa gatgagtaag gtggagacac tgcgctcggc ggtcgagtac atccgcgcgc 540
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cctcctactc gtcggacgag ggctcttacg acccgctcag ccccgaggag caggagcttc 720
tcgacttcac caactgggtc tgaggggctc ggcttggtca ggccctggtg cgaatggact 780
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<210> 1866

<211> 784

<212> DNA

<213> Homo sapiens

<400> 1866

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ccgcgactcc ttggccgccc ctgcgcatgg aaagctctgc caagatggag agcggcgggc 60
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ttgccacggc cgcagccgcg gcggccgcag ccgcgcagc ggcagcgagc agcgcgcagc 180
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tgccgcagca gcagccggcc gccgtggcgc gccgcaacga gcgcgagcgc aaccgcgtca 420
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agaagatgag taaggtggag aactgcgct cggcggtcga gtacatccgc gcgctgcagc 540
agctgctgga cgagcatgac gcggtgagcg ccgccttcca ggcaggcgtc ctgtcgccca 600
ccatctcccc caactactcc aacgacttga actccatggc cggctcgccg gtctcactct 660
actcgtcgga cgagggtctt tacgaccgcg tcagccccga ggagcaggag cttctcgact 720
tcaccaactg gttctgaggg gctcggcctg gtcaggccct ggtgcgaatg gactttggaa 780
gcag                                     784

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<210> 1867

<211> 789

<212> DNA

<213> Homo sapiens

<400> 1867

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ttccgcgact ccttggccgc cgctgcgcat ggaaagctct gccaatatgg agagcggcgg 60
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ctttgccacg gccgcagccc cggcgggccc agccgcgcga gcggcagcgc agagcgcgca 180
gcagcagcag cagcagcagc agcagcagca gcagcaggcg ccgcagctga gaccggcggc 240
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cgtcaagttg gtcaacctgg gctttgccac ccttcgggag cacttcccc aacggcgggc 480
caacaagaag atgagtaagg tggagacact gcgctcggcg gtcgagtaca tccgcgcgct 540
gcagcagctg ctggacgagc atgacgcggt gagcgccgcc ttccaggcag gcgtcctgtc 600
gcccaccatc tcccccaact actccaacga cttgaactcc atggccggct cgccgggtctc 660
atcctactcg tcggacgagg gctcttacga cccgctcagc cccgaggagc aggagcttct 720
cgacttcacc aactgggtct gaggggctcg gcctgggtcag gccctggtgc gaatggactt 780
tggaagcag                                     789

```

<210> 1868
 <211> 785
 <212> DNA
 <213> Homo sapiens

<400> 1868
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 tgtttctttg ccacggccgc agccgcggcg gccgcagccg ccgcagcggc agcgagagc 180
 gcgcagcagc agcagcagca gcagcagcag caggcgccgc agctgagacc ggccggccgac 240
 ggccagccct cagggggcgg tcacaagtca gcgcccgaagc aagtcaagcg acagcgctcg 300
 tcttcgcccg aactgatgcg ctgcaaacgc cggctcaact tcagcggctt tggctacagc 360
 ctgccgcagc agcagccggc cgccgtggcg cgccgcaacg agcgcgagcg caaccgcgctc 420
 aagttggtca acctgggctt tgccaccctt cgggagcacg tccccaacgg cgcggccaac 480
 aagaagatga gtaaggtgga gacactgcgc tcggcggtcg agtacatccg cgcgctgcag 540
 cagctgctgg acgagcatga cgcggtgagc gccgccttcc aggcaggcgt cctgtcgccc 600
 accatctccc ccaactactc caacgacttg aactccatgg ccggctcgcc ggtctcatcc 660
 tactcgtcgg acgagggctc ttacgacccg ctcagccccg aggagcagga gcttctcgac 720
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 agcag 785

<210> 1869
 <211> 236
 <212> PRT
 <213> Homo sapiens

<400> 1869
 Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1 5 10 15
 Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
 20 25 30
 Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
 35 40 45
 Ser Ala Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Gln Ala Pro
 50 55 60
 Gln Leu Arg Pro Ala Ala Asp Gly Gln Pro Ser Gly Gly Gly His Lys
 65 70 75 80
 Ser Ala Pro Lys Gln Val Lys Arg Gln Arg Ser Ser Ser Pro Glu Leu
 85 90 95
 Met Arg Cys Lys Arg Arg Leu Asn Phe Ser Gly Phe Gly Tyr Ser Leu
 100 105 110
 Pro Gln Gln Gln Pro Ala Ala Val Ala Arg Arg Asn Glu Arg Glu Arg
 115 120 125
 Asn Arg Val Lys Leu Val Asn Leu Gly Phe Ala Thr Leu Arg Glu His
 130 135 140
 Val Pro Asn Gly Ala Ala Asn Lys Lys Met Ser Lys Val Glu Thr Leu
 145 150 155 160
 Arg Ser Ala Val Glu Tyr Ile Arg Ala Leu Gln Gln Leu Leu Asp Glu
 165 170 175
 His Asp Ala Val Ser Ala Ala Phe Gln Ala Gly Val Leu Ser Pro Thr
 180 185 190
 Ile Ser Pro Asn Tyr Ser Asn Asp Leu Asn Ser Met Ala Gly Ser Pro
 195 200 205
 Val Ser Ser Tyr Ser Ser Asp Glu Gly Ser Tyr Asp Pro Leu Ser Pro

```
<210> 1870
<211> 236
<212> PRT
<213> Homo sapiens
```

```
<210> 1871
<211> 237
<212> PRT
<213> Homo sapiens
```

```
<400> 1871
Met Glu Ser Ser Ala Lys Met Glu Ser Gly Gly Ala Gly Gln Gln Pro
 1           5           10           15
Gln Pro Gln Pro Gln Gln Pro Phe Leu Pro Pro Ala Ala Cys Phe Phe
      20           25           30
Ala Thr Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Ala Gln
```

```
<210> 1872
<211> 234
<212> PRT
<213> Homo sapiens
```

<400> 1872																
Met	Glu	Ser	Ser	Ala	Lys	Met	Glu	Ser	Gly	Gly	Ala	Gly	Gln	Gln	Pro	
1				5					10					15		
Gln	Pro	Gln	Pro	Gln	Gln	Pro	Phe	Leu	Pro	Pro	Ala	Ala	Cys	Phe	Phe	
			20					25					30			
Ala	Thr	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Gln	
		35					40					45				
Ser	Ala	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Gln	Ala	Pro	Gln	Leu	
	50					55					60					
Arg	Pro	Ala	Ala	Asp	Gly	Gln	Pro	Ser	Gly	Gly	Gly	His	Lys	Ser	Ala	
65					70					75					80	
Pro	Lys	Gln	Val	Lys	Arg	Gln	Arg	Ser	Ser	Ser	Pro	Glu	Leu	Met	Arg	
				85					90					95		
Cys	Lys	Arg	Arg	Leu	Asn	Phe	Ser	Gly	Phe	Gly	Tyr	Ser	Leu	Pro	Gln	
			100					105					110			
Gln	Gln	Pro	Ala	Ala	Val	Ala	Arg	Arg	Asn	Glu	Arg	Glu	Arg	Asn	Arg	
		115					120					125				
Val	Lys	Leu	Val	Asn	Leu	Gly	Phe	Ala	Thr	Leu	Arg	Glu	His	Val	Pro	
	130					135					140					
Asn	Gly	Ala	Ala	Asn	Lys	Lys	Met	Ser	Lys	Val	Glu	Thr	Leu	Arg	Ser	
145					150					155					160	
Ala	Val	Glu	Tyr	Ile	Arg	Ala	Leu	Gln	Gln	Leu	Leu	Asp	Glu	His	Asp	

			165					170						175			
Ala	Val	Ser	Ala	Ala	Phe	Gln	Ala	Gly	Val	Leu	Ser	Pro	Thr	Ile	Ser		
			180					185						190			
Pro	Asn	Tyr	Ser	Asn	Asp	Leu	Asn	Ser	Met	Ala	Gly	Ser	Pro	Val	Ser		
		195					200					205					
Ser	Tyr	Ser	Ser	Asp	Glu	Gly	Ser	Tyr	Asp	Pro	Leu	Ser	Pro	Glu	Glu		
	210					215					220						
Gln	Glu	Leu	Leu	Asp	Phe	Thr	Asn	Trp	Phe								
225					230												

<210> 1873

<211> 1353

<212> DNA

<213> Homo sapiens

<400> 1873

```

gcagcatgta acctggcctg catccaggaa atagaggact tcggatcctt ctaaccctac 60
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agaaaaggaa taggatcaag agatacgtgg ctgctggcag agcaagcatg aattcgatga 180
cttcagcagt tccggtggcc aattctgtgt tgggtgggtggc accccacaat gggttatcctg 240
tgaccccgagg aattatgtct cacgtgcccc tgtatccaaa cagccagccg caagtccacc 300
tagttcctgg gaaccacact agtttgggtgt cgaatgtgaa tgggcagcct gtgcagaaag 360
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gcctcggctc catcatggcg acggttctcg taggggaata cctgtctatt tcattctacg 480
gaggctttcc cttctgggga ggcttgtggt ttatcatttc agaattcttc tccgtggcag 540
cagaaaatca gccatattct tattgcctgc tgtctggcag tttgggcttg aacatcgtca 600
gtgcaatctg ctctgcagtt ggagtcatac tcttcatcac agatctaagt attccccacc 660
catatgccta ccccgactat tatccttacg cctgggggtgt gaaccctgga atggcgattt 720
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cacattcgtg tgctctgctg catgtgagct tgtgggttaa aggaacaaat atttagacat 1260
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```

<210> 1874

<211> 250

<212> PRT

<213> Homo sapiens

<400> 1874

Met	Asn	Ser	Met	Thr	Ser	Ala	Val	Pro	Val	Ala	Asn	Ser	Val	Leu	Val		
1				5					10					15			
Val	Ala	Pro	His	Asn	Gly	Tyr	Pro	Val	Thr	Pro	Gly	Ile	Met	Ser	His		
			20					25					30				
Val	Pro	Leu	Tyr	Pro	Asn	Ser	Gln	Pro	Gln	Val	His	Leu	Val	Pro	Gly		
		35					40					45					
Asn	Pro	Pro	Ser	Leu	Val	Ser	Asn	Val	Asn	Gly	Gln	Pro	Val	Gln	Lys		

50	55	60
Ala Leu Lys Glu Gly	Lys Thr Leu Gly	Ala Ile Gln Ile Ile Ile Gly
65	70	75
Leu Ala His Ile Gly	Leu Gly Ser Ile	Met Ala Thr Val Leu Val Gly
85	90	95
Glu Tyr Leu Ser Ile	Ser Phe Tyr Gly	Gly Phe Pro Phe Trp Gly Gly
100	105	110
Leu Trp Phe Ile Ile	Ser Glu Ser Leu	Ser Val Ala Ala Glu Asn Gln
115	120	125
Pro Tyr Ser Tyr Cys	Leu Leu Ser Gly	Ser Leu Gly Leu Asn Ile Val
130	135	140
Ser Ala Ile Cys Ser	Ala Val Gly Val	Ile Leu Phe Ile Thr Asp Leu
145	150	155
Ser Ile Pro His Pro	Tyr Ala Tyr Pro	Asp Tyr Tyr Pro Tyr Ala Trp
165	170	175
Gly Val Asn Pro Gly	Met Ala Ile Ser	Gly Val Leu Leu Val Phe Cys
180	185	190
Leu Leu Glu Phe Gly	Ile Ala Cys Ala	Ser Ser His Phe Gly Cys Gln
195	200	205
Leu Val Cys Cys Gln	Ser Ser Asn Val	Ser Val Ile Tyr Pro Asn Ile
210	215	220
Tyr Ala Ala Asn Pro	Val Ile Thr Pro	Glu Pro Val Thr Ser Pro Pro
225	230	235
Ser Tyr Ser Ser Glu	Ile Gln Ala Asn	Lys
245	250	

<210> 1875
 <211> 1155
 <212> DNA
 <213> Homo sapiens

<400> 1875
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 accgttcata tcgggcctac cgccttcctc ggcttgggtg ttgtcgacaa caacggcaac 180
 ggcgcacgag tccaacgcgt ggtcgggagc gctccggcgg caagtctcgg catctccacc 240
 ggcgacgtga tcaccgcggt cgacggcgct ccgatcaact cggccaccgc gatggcggac 300
 gcgcttaacg ggcacatcc cggtgacgtc atctcgggtga cctggcaaac caagtcgggc 360
 ggcacgcgta cagggaacgt gacattggcc gagggacccc cggccgaatt catgacttca 420
 gcagttccgg tggccaattc tgtgttggtg gtggcacccc acaatggtta tctgtgacc 480
 ccaggaatta tgtctcacgt gccctgtat ccaaacagcc agccgcaagt ccacctagtt 540
 cctgggaacc cacctagttt ggtgtcgaat gtgaatgggc agcctgtgca gaaagctctg 600
 aaagaaggca aaaccttggg ggccatccag atcatcattg gcctgggtca catcggcctc 660
 ggctccatca tggcgacggt tctcgtaggg gaatacctgt ctatttcatt ctacggaggc 720
 tttcccttct ggggaggctt gtggtttatc atttcagaat ctctctccgt ggcagcagaa 780
 aatcagccat attcttattg cctgctgtct ggcagtttgg gcttgaacat cgtcagtgca 840
 atctgctctg cagttggagt catactcttc atcacagatc taagtattcc ccaccatat 900
 gcctaccccg actattatcc ttacgcctgg ggtgtgaacc ctggaatggc gatttctggc 960
 gtgctgctgg tcttctgcct cctggagttt ggcacatcgc gcgcatcttc ccactttggc 1020
 tgccagttgg tctgctgtca atcaagcaat gtgagtgatc tctatccaaa catctatgca 1080
 gcaaaccag tgatcacccc agaaccggtg acctcaccac caagttattc cagtgagatc 1140
 caagcaaata agtaa 1155

<210> 1876
 <211> 384
 <212> PRT
 <213> Homo sapiens

<400> 1876

Met	His	His	His	His	His	His	Thr	Ala	Ala	Ser	Asp	Asn	Phe	Gln	Leu
1				5					10					15	
Ser	Gln	Gly	Gly	Gln	Gly	Phe	Ala	Ile	Pro	Ile	Gly	Gln	Ala	Met	Ala
			20					25					30		
Ile	Ala	Gly	Gln	Ile	Lys	Leu	Pro	Thr	Val	His	Ile	Gly	Pro	Thr	Ala
		35					40					45			
Phe	Leu	Gly	Leu	Gly	Val	Val	Asp	Asn	Asn	Gly	Asn	Gly	Ala	Arg	Val
	50					55					60				
Gln	Arg	Val	Val	Gly	Ser	Ala	Pro	Ala	Ala	Ser	Leu	Gly	Ile	Ser	Thr
65					70					75					80
Gly	Asp	Val	Ile	Thr	Ala	Val	Asp	Gly	Ala	Pro	Ile	Asn	Ser	Ala	Thr
				85					90					95	
Ala	Met	Ala	Asp	Ala	Leu	Asn	Gly	His	His	Pro	Gly	Asp	Val	Ile	Ser
			100					105					110		
Val	Thr	Trp	Gln	Thr	Lys	Ser	Gly	Gly	Thr	Arg	Thr	Gly	Asn	Val	Thr
		115					120					125			
Leu	Ala	Glu	Gly	Pro	Pro	Ala	Glu	Phe	Met	Thr	Ser	Ala	Val	Pro	Val
	130					135					140				
Ala	Asn	Ser	Val	Leu	Val	Val	Ala	Pro	His	Asn	Gly	Tyr	Pro	Val	Thr
145					150					155					160
Pro	Gly	Ile	Met	Ser	His	Val	Pro	Leu	Tyr	Pro	Asn	Ser	Gln	Pro	Gln
			165					170					175		
Val	His	Leu	Val	Pro	Gly	Asn	Pro	Pro	Ser	Leu	Val	Ser	Asn	Val	Asn
		180						185					190		
Gly	Gln	Pro	Val	Gln	Lys	Ala	Leu	Lys	Glu	Gly	Lys	Thr	Leu	Gly	Ala
	195					200						205			
Ile	Gln	Ile	Ile	Ile	Gly	Leu	Ala	His	Ile	Gly	Leu	Gly	Ser	Ile	Met
	210					215					220				
Ala	Thr	Val	Leu	Val	Gly	Glu	Tyr	Leu	Ser	Ile	Ser	Phe	Tyr	Gly	Gly
225					230					235					240
Phe	Pro	Phe	Trp	Gly	Gly	Leu	Trp	Phe	Ile	Ile	Ser	Glu	Ser	Leu	Ser
			245					250						255	
Val	Ala	Ala	Glu	Asn	Gln	Pro	Tyr	Ser	Tyr	Cys	Leu	Leu	Ser	Gly	Ser
			260					265					270		
Leu	Gly	Leu	Asn	Ile	Val	Ser	Ala	Ile	Cys	Ser	Ala	Val	Gly	Val	Ile
	275						280					285			
Leu	Phe	Ile	Thr	Asp	Leu	Ser	Ile	Pro	His	Pro	Tyr	Ala	Tyr	Pro	Asp
	290					295					300				
Tyr	Tyr	Pro	Tyr	Ala	Trp	Gly	Val	Asn	Pro	Gly	Met	Ala	Ile	Ser	Gly
305					310					315					320
Val	Leu	Leu	Val	Phe	Cys	Leu	Leu	Glu	Phe	Gly	Ile	Ala	Cys	Ala	Ser
			325					330						335	
Ser	His	Phe	Gly	Cys	Gln	Leu	Val	Cys	Cys	Gln	Ser	Ser	Asn	Val	Ser
			340					345					350		
Val	Ile	Tyr	Pro	Asn	Ile	Tyr	Ala	Ala	Asn	Pro	Val	Ile	Thr	Pro	Glu
	355						360					365			
Pro	Val	Thr	Ser	Pro	Pro	Ser	Tyr	Ser	Ser	Glu	Ile	Gln	Ala	Asn	Lys
	370					375					380				

<210> 1877
 <211> 861
 <212> DNA
 <213> Homo sapiens

<400> 1877
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 cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttatg 120
 acttcagcag ttccggtggc caattctgtg ttggtggtgg caccaccaca tggttatcct 180
 gtgacccag gaattatgtc tcacgtgcc ctgtatccaa acagccagcc gcaagtccac 240
 ctagttcctg ggaaccacc tagtttgggtg tcgaatgtga atgggcagcc tgtgcagaaa 300
 gctctgaaag aaggcaaaac cttggggggc atccagatca tcattggcct ggctcacatc 360
 ggcctcggct ccatcatggc gacggttctc gtagggggaat acctgtctat ttcattctac 420
 ggaggctttc ccttctgggg aggcctgtgg tttatcattt cagaatctct ctccgtggca 480
 gcagaaaatc agccatattc ttattgcctg ctgtctggca gtttgggctt gaacatcgtc 540
 agtgcaatct gctctgcagt tggagtcata ctcttcacat cagatctaag tattccccac 600
 ccataatgct accccgacta ttatccttac gcctgggggtg tgaaccctgg aatggcgatt 660
 tctggcgtgc tgctgggtct ctgcctcctg gagtttggca tcgcatgcgc atcttcccac 720
 tttggctgcc agttggtctg ctgtcaatca agcaatgtga gtgtcatcta tccaaacatc 780
 tatgcagcaa acccagtgat caccaccagaa ccggtgacct caccaccaag ttattccagt 840
 gagatccaag caaataagta a 861

<210> 1878
 <211> 286
 <212> PRT
 <213> Homo sapiens

<400> 1878
 Met His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 1 5 10 15
 Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
 20 25 30
 Ile Ala Gly Gln Ile Lys Leu Met Thr Ser Ala Val Pro Val Ala Asn
 35 40 45
 Ser Val Leu Val Val Ala Pro His Asn Gly Tyr Pro Val Thr Pro Gly
 50 55 60
 Ile Met Ser His Val Pro Leu Tyr Pro Asn Ser Gln Pro Gln Val His
 65 70 75 80
 Leu Val Pro Gly Asn Pro Pro Ser Leu Val Ser Asn Val Asn Gly Gln
 85 90 95
 Pro Val Gln Lys Ala Leu Lys Glu Gly Lys Thr Leu Gly Ala Ile Gln
 100 105 110
 Ile Ile Ile Gly Leu Ala His Ile Gly Leu Gly Ser Ile Met Ala Thr
 115 120 125
 Val Leu Val Gly Glu Tyr Leu Ser Ile Ser Phe Tyr Gly Gly Phe Pro
 130 135 140
 Phe Trp Gly Gly Leu Trp Phe Ile Ile Ser Glu Ser Leu Ser Val Ala
 145 150 155 160
 Ala Glu Asn Gln Pro Tyr Ser Tyr Cys Leu Leu Ser Gly Ser Leu Gly
 165 170 175
 Leu Asn Ile Val Ser Ala Ile Cys Ser Ala Val Gly Val Ile Leu Phe
 180 185 190

```

Ile Thr Asp Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr
      195                200                205
Pro Tyr Ala Trp Gly Val Asn Pro Gly Met Ala Ile Ser Gly Val Leu
      210                215                220
Leu Val Phe Cys Leu Leu Glu Phe Gly Ile Ala Cys Ala Ser Ser His
225                230                235                240
Phe Gly Cys Gln Leu Val Cys Cys Gln Ser Ser Asn Val Ser Val Ile
      245                250                255
Tyr Pro Asn Ile Tyr Ala Ala Asn Pro Val Ile Thr Pro Glu Pro Val
      260                265                270
Thr Ser Pro Pro Ser Tyr Ser Ser Glu Ile Gln Ala Asn Lys
      275                280                285

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<210> 1879
<211> 186
<212> DNA
<213> Homo sapiens

```

```

<400> 1879
atgcatcacc atcaccatca cacggccgcg tccgataact tccagctgtc ccaggggtggg 60
cagggattcg ccattccgat cgggcaggcg atggcgatcg cgggccagat caagcttcta 120
agtattcccc acccatatgc ctaccccgac tattatcctt acgcctgggg tgtgaaccct 180
ggaatg                                           186

```

```

<210> 1880
<211> 62
<212> PRT
<213> Homo sapiens

```

```

<400> 1880
Met His His His His His His Thr Ala Ala Ser Asp Asn Phe Gln Leu
 1                5                10                15
Ser Gln Gly Gly Gln Gly Phe Ala Ile Pro Ile Gly Gln Ala Met Ala
      20                25                30
Ile Ala Gly Gln Ile Lys Leu Leu Ser Ile Pro His Pro Tyr Ala Tyr
      35                40                45
Pro Asp Tyr Tyr Pro Tyr Ala Trp Gly Val Asn Pro Gly Met
      50                55                60

```

```

<210> 1881
<211> 69
<212> DNA
<213> Homo sapiens

```

```

<400> 1881
ctaagtattc cccacccata tgccctacccc gactattatc cttacgcctg ggggtgtgaac 60
cctggaatg                                           69

```

```

<210> 1882
<211> 23
<212> PRT
<213> Homo sapiens

```

<400> 1882

Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala
 1 5 10 15
 Trp Gly Val Asn Pro Gly Met
 20

<210> 1883

<211> 6799

<212> DNA

<213> Homo sapiens

<400> 1883

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aactcacaag acaggagact caacagaatg accaagtgga gaagacgtct aagttctcag 180
cgggtctcagc cgaatgactg aagaggaacc agggacaggg atgactcaca tgggaagagg 240
accccacttt gttctgtttg attctaagag gacacagact gcttcattca ttccagtttc 300
cccagcacct ggcttaactc tcagacatgt tagacggttt gtaagcaccg gctctactga 360
actggcatca aatcatgacc tggttcagaa gagacacgag gactggatct gttctaaaca 420
gattgtgcaa aggggaaaga cacagactca gcatttccac agcttttaac atttcagcga 480
gaggtgagaa agcatgtcag gaacacaggc cccggccgat gaaagtgtct gatgctaaca 540
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ctccacattc tctctgggtg cactggccct cggccacgca agcccgcgcc agcctccgag 660
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cagctccagg ctgacacgct ccgcctcctt ctgccggcac tcctcctcca gctgcttcag 840
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cgcggcaggc acaggttctc caaacaacag agaaggcacc tgggtcccaa gaagaacttc 960
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gactcggacc aggaaagagg agatgctgat tctgacgaag gccaggagct cctggctctg 1140
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ccttcttgga gtgtgaaccc tgctcctccc taacgctccg ccgatacctc agtcacttta 1260
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cactgggcag atgagaacac caatcccaag aggtgaacgg acttgtgccc agggcctggg 1440
ccggtggtgg ccggcaggcg aggttctctt tttcaaagcc aaaagcactc ctggccctcc 1500
tgcatcttca ctatcctgca agctgggaac acgggagaaa tgctacttct gtctcattaa 1560
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<210> 1884
<211> 91
<212> PRT
<213> Homo sapiens

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      35             40             45
Phe Val Ser Thr Gly Ser Thr Glu Leu Ala Ser Asn His Asp Leu Val
      50             55             60
Gln Lys Arg His Glu Asp Trp Ile Cys Ser Lys Gln Ile Val Gln Arg
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<210> 1885
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<213> Homo sapiens

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Ile Ser Ala Arg Gly Glu Lys Ala Cys Gln Glu His Arg Pro Arg Pro

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<210> 1886
 <211> 56
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<400> 1886
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 35 40 45
 Thr His Leu Trp Thr Arg Cys Pro
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<210> 1887
 <211> 100
 <212> PRT
 <213> Homo sapiens

<400> 1887
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 35 40 45
 Ala Cys Gly Phe Leu Pro Gly Ile Pro Arg Asn Ala Val Thr Pro Ala
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<210> 1888
 <211> 195
 <212> PRT
 <213> Homo sapiens

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 20 25 30
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<212> DNA
<213> Homo sapiens
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<210> 1892
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<212> DNA
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<210> 1893

<211> 8372

<212> DNA

<213> Homo sapiens

<220>

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<400> 1893

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<210> 1896
<211> 787
<212> DNA
<213> Homo sapiens

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<400> 1896
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tatgttgata aggaaaatgg agaaccaggc acccgtgtgg ttgctaagga tgggctgaag 180
ctgggggtctg gaccttcaat caaagcctta gatgggagat ctcaagtttc aacaccacgt 240
tttggcaaaa cgttcgatgc cccaccagcc ttacctaaag ctactagaaa ggctttggga 300
actgtcaaca gagctacaga aaagtctgta aagaccaagg gaccctcaa aaaaaaacag 360
ccaagctttt ctgcaaaaaa gatgactgag aagactgtta aagcaaaaag ctctgttcct 420
gcctcagatg atgcctatcc agaaatagaa aaattctttc ccttcaatcc tctagacttt 480
gagagttttg acctgcctga agagcaccag attgcgacc tccccttgag tggagtgcct 540
ctcatgatcc ttgacgagga gagagagctt gaaaagctgt ttcagctggg ccccccttca 600
cctgtgaaga tgccctctcc accatgggaa tccaatctgt tgcagtctcc ttcaagcatt 660

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ctgtcgaccc tggatgttga attgccacct gtttgctgtg acatagatat ttaaatttct 720
tagtgcttca gagtttgtgt gtatttgtat taataaagca ttctttaaca gaaaaaaaaa 780
aaaaaaa 787

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<210> 1897
<211> 1838
<212> DNA
<213> Homo sapiens

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<400> 1897
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ctctgtcctt cccagatac aacatagctg agattgtagt tcatattcgc aataaactgt 180
taactggagc ggatggcaaa aacctctcca agagcgattt tcttccaaac ccgaagcctg 240
aagtcctgta catgatttac atgagagcct tacagttagt gtatgggggtc cggctggagc 300
atttctacat gatgccggtg aacatagaag tcatgtatcc acatataatg gagggcttct 360
taccggtcag caatttgttc ttccacctgg actcgtttat gccatttgc cgggtgaatg 420
actttgagat cgccgatatt ctttatccaa aagcaaaccg gacaagtcgt tttttaagtg 480
gcattatcaa ctttattcac ttcagagaaa catgcctgga gaagtatgaa gaatttcttt 540
tgcaaaaata atcctctgtg gacaaaatac agcagttaag caatgcacac caggaagcat 600
tgatgaaact ggaaaaactc aattcgggtc ccgtggagga gcaggaagag ttcaaacagc 660
tgaaggatga catccaggag ctgcagcact tgctgaatca agacttcaga cagaaaacga 720
cactgctgca ggagagatat accaaaatga aatcagattt ttcagagaaa accaagcatg 780
ttaatgagct aaagttgtca gtagtttctt tgaaagaagt tcaagacagt ttgaaaagca 840
aaattgtgga ttctccagag aagctgaaga actataaaga gaagatgaag gacaccgtcc 900
agaagctccg cagtgccagg gaagaagtga tggagaagta tgatatctat agagattctg 960
tggattgctt gccttcctgt cagctggagg tgcagttata tcaaaagaaa tcacaggacc 1020
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ctgggattca gcagctaaga gacgccgaaa aacgggagaa actgaagtct caggaaatct 1380
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tgctacaatt aaagtaacgt gtacagcttt tatgtcccta ctctgtctcc ttttgtatgt 1800
gctgggttga ataaacaaat agttactgac gtcaaaaa 1838

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<210> 1898
<211> 2103
<212> DNA
<213> Homo sapiens

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ccggcaccct ctctgagagg caacagaagc agcaattgtt tcagcgaaaa aagcagcaag 180
ggagggagtg aaggaaaaaa gcaaaaaagg gggcgacacg caagtgcctg taggggtgaa 240
aggagcaggg accggcgatc taggggggga tcagctacaa aagaaactgt cactgggagc 300
ggtgcggcca aggaggaagc agtgctgcc a ggtctgtctc cagggcacag ctggctggcg 360

```



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gctgccctgt ccgcagcaaa ggggcacagg ccgggggaccg cgagaggtgg caaagtggca 420
ccggggcgccg aggtctgtga gcgctcgccg agacgcggac cggactggct gccccggaac 480
tgcggcgact ctccctactc agaacttggc ctacgtttcc caggactctc cccatctcca 540
gaggecccca caaaaccggg aaaggaagga aaggacagcg gcggcagcag ctcaatgagt 600
gcctacagca gaaagcctga acgagctcgg tcgtaggcgg gaagtccccg ggggctgccc 660
agtgcagccg caatgctgcc gcgagctgcc ccagcagtcg gggctccgta gacgctttcc 720
gcatcactct ccttcctcgg gctgccggga gtcccgggac ctggcggggc cggcatgacg 780
ggcttctcgg gggcccgccg cagccccggc agcctccgga gacgcgcgcc gagccccgct 840
cccacggcct ctgaggetcg gcggggctgc ggctgcctgg cgggcgggct ccggagcttt 900
cctgagccgg cattagccca cggcttggcc cggacgcgac caaaggctct tctggagaag 960
cccagagcac tgggcaatcg ttacgacctg taacttgagg gccaccgaac tgctactccc 1020
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cgctctccca gcagcggagg acccaggact atcccttcgg cgagacggat ggaaaccgag 1140
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aaggggaccct aaagaatggc cgagccttgg gggaaacgagt tggcgtccgc agctgccagg 1260
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gttaacatcg aggataatga agggaaacctg cccttgcact tggctgccaa agaaggtcac 1560
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tcttacaaca ggtttatgaa tatatttaag caacatcttt ttaacctgca aaatctgttc 1920
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tcccttgctt ccccttttgc caatctcaac acccaagttg aagactttgt ttttaaaatg 2040
gtttgtcctg atgcttttgt ctaattaaaa cactttcaaa acaggaaaaa aaaaaaaaaa 2100
aaa 2103

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<210> 1899
<211> 987
<212> DNA
<213> Homo sapiens

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<400> 1899
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ggtgcgggcg ctgctggagg cgggggcgct gcccaacgca ccgaatagtt acggtcggag 180
gccgatccag gtcattgatg tgggcagcgc ccgagtggcg gagctgctgc tgctccacgg 240
cgcgagccc aactgcgccc accccgccac tctcaccgga cccgtgcacg acgtgcccg 300
ggagggcttc ctggacacgc tgggtggtgct gcaccggggcc ggggcgcggc tggacgtgcg 360
cgatgcctgg ggccgtctgc ccgtggacct ggctgaggag ctggggccatc gcgatgtcgc 420
acggtacctg cgcgcggctg cggggggcac cagaggcagt aaccatgccc gcatagatgc 480
cgcggaaggt ccctcagaca tccccgattg aaagaaccag agaggctctg agaaacctcg 540
ggaaacttag atcatcagtc accgaaggtc ctacagggcc acaactgccc ccgccacaac 600
ccaccccgct ttcgtagttt tcatttagaa aatagagctt ttaaaaatgt cctgcctttt 660
aacgtagata taagccttcc cccactaccg taaatgtcca tttatatcat tttttatata 720
ttcttataaa aatgtaaaaa agaaaaacac cgcttctgcc ttttactgtg gttggagttt 780
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cagcctccgg aagctgtcga cttcatgaca agcattttgt gaactaggga agctcagggg 900
ggttactggc ttctcttgag tcacactgct agcaaattggc agaaccaaa ctcaaataaa 960
aataaaataa ttttcattca ttcactc 987

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<210> 1900
 <211> 2545
 <212> DNA
 <213> Homo sapiens

<400> 1900

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aagggtcgct gttcctgcat cagcaccaac caagggacta tccacctaca atccttgaaa 180
gaccttaaac aatttgcccc aagcccttcc tgcgagaaaa ttgaaatcat tgctacactg 240
aagaatggag ttcaaacatg tctaaaccca gattcagcag atgtgaagga actgattaaa 300
aagtggggaga aacaggtcag ccaaaagaaa aagcaaaaaga atgggaaaaa acatcaaaaa 360
aagaaagttc tgaaagtctg aaaatctcaa cgttctcgtc aaaagaagac tacataagag 420
accacttcac caataagtat tctgtgttaa aaatgttcta ttttaattat accgctatca 480
ttccaaagga ggatggcata taatacaaag gcttattaat ttgactagaa aatttaaaac 540
attactctga aattgtaact aaagttagaa agttgatttt aagaatccaa acgttaagaa 600
ttgttaaagg ctatgattgt ctttgttctt ctaccaccca ccagttgaat ttcacatgc 660
ttaaggccat gattttagca atacccatgt ctacacagat gttcacccaa ccacatccca 720
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aagtcagctc ttctccatcc taccacaatg cagtgccttt cttctctcca gtgcacctgt 1140
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gatgcaacat ccttgtcttt ttatgacagg atgtttgctc agcttctcca acaataagaa 1680
gcacgtggta aaacacttgc ggatattctg gactgttttt aaaaaatata cagtttaccg 1740
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ccaaccatac aaaaattcct tttccogaag gaaaagggct ttctcaataa gcctcagctt 1860
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tctcccatga agaaagggaa cgggtgaagta ctaagcgcta gaggaagcag ccaagtcggt 2040
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ctttcccaaa ttgaatcact gctcacactg ctgatgattt agagtgtgt ccggtggaga 2220
tcccaccoga acgtcttate taatcatgaa actccctagt tccttcatgt aacttccctg 2280
aaaaatctaa gtgtttcata aatttgagag tctgtgacce acttaccttg catctcacag 2340
gtagacagta tataactaac aaccaagac tacatatgtt cactgacaca cacgttataa 2400
tcatttatca tatatatata tacatgcata cactctcaaa gcaaataatt tttcacttca 2460
aaacagtatt gacttgata ccttgtaatt tgaaatatat tctttgttaa aatagaatgg 2520
tatcaataaa tagaccatta atcag 2545

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<210> 1901
 <211> 149
 <212> PRT

<213> Homo sapiens

<400> 1901

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Met Ala Ser Ser Asp Ile Gln Val Lys Glu Leu Glu Lys Arg Ala Ser
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Gly Gln Ala Phe Glu Leu Ile Leu Ser Pro Arg Ser Lys Glu Ser Val
          20          25          30
Pro Glu Phe Pro Leu Ser Pro Pro Lys Lys Lys Asp Leu Ser Leu Glu
          35          40          45
Glu Ile Gln Lys Lys Leu Glu Ala Ala Glu Glu Arg Arg Lys Ser His
          50          55          60
Glu Ala Glu Val Leu Lys Gln Leu Ala Glu Lys Arg Glu His Glu Lys
65          70          75          80
Glu Val Leu Gln Lys Ala Ile Glu Glu Asn Asn Asn Phe Ser Lys Met
          85          90          95
Ala Glu Glu Lys Leu Thr His Lys Met Glu Ala Asn Lys Glu Asn Arg
          100          105          110
Glu Ala Gln Met Ala Ala Lys Leu Glu Arg Leu Arg Glu Lys Asp Lys
          115          120          125
His Ile Glu Glu Val Arg Lys Asn Lys Glu Ser Lys Asp Pro Ala Asp
          130          135          140
Glu Thr Glu Ala Asp
145

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<210> 1902

<211> 276

<212> PRT

<213> Homo sapiens

<400> 1902

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Met Ser Lys Pro Val Asp His Val Lys Arg Pro Met Asn Ala Phe Met
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Val Trp Ser Arg Ala Gln Arg Arg Lys Met Ala Gln Glu Asn Pro Lys
          20          25          30
Met His Asn Ser Glu Ile Ser Lys Arg Leu Gly Ala Glu Trp Lys Leu
          35          40          45
Leu Thr Glu Ser Glu Lys Arg Pro Phe Ile Asp Glu Ala Lys Arg Leu
          50          55          60
Arg Ala Met His Met Lys Glu His Pro Asp Tyr Lys Tyr Arg Pro Arg
65          70          75          80
Arg Lys Pro Lys Thr Leu Leu Lys Lys Asp Lys Phe Ala Phe Pro Val
          85          90          95
Pro Tyr Gly Leu Gly Gly Val Ala Asp Ala Glu His Pro Ala Leu Lys
          100          105          110
Ala Gly Ala Gly Leu His Ala Gly Ala Gly Gly Gly Leu Val Pro Glu
          115          120          125
Ser Leu Leu Ala Asn Pro Glu Lys Ala Ala Ala Ala Ala Ala Ala
          130          135          140
Ala Ala Arg Val Phe Phe Pro Gln Ser Ala Ala Ala Ala Ala Ala
145          150          155          160
Ala Ala Ala Ala Ala Ala Gly Ser Pro Tyr Ser Leu Leu Asp Leu Gly
          165          170          175
Ser Lys Met Ala Glu Ile Ser Ser Ser Ser Ser Gly Leu Pro Tyr Ala

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			180					185					190				
Ser	Ser	Leu	Gly	Tyr	Pro	Thr	Ala	Gly	Ala	Gly	Ala	Phe	His	Gly	Ala		
		195					200					205					
Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Ala	Gly	Gly	His	Thr	His		
	210					215					220						
Ser	His	Pro	Ser	Pro	Gly	Asn	Pro	Gly	Tyr	Met	Ile	Pro	Cys	Asn	Cys		
225					230					235				240			
Ser	Ala	Trp	Pro	Ser	Pro	Gly	Leu	Gln	Pro	Pro	Leu	Ala	Tyr	Ile	Leu		
			245					250						255			
Leu	Pro	Gly	Met	Gly	Lys	Pro	Gln	Leu	Asp	Pro	Tyr	Pro	Ala	Ala	Tyr		
		260					265						270				
Ala	Ala	Ala	Leu														
		275															

<210> 1903
 <211> 2209
 <212> PRT
 <213> Homo sapiens

<400> 1903

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Tyr	Leu	Ser	Val	Gly	Ser	Arg	Lys	Glu	His	Gly	Thr	Ala	Leu	Tyr	Gln		
			20					25					30				
Val	Asp	Leu	Leu	Val	Lys	Ile	Ser	Ser	Glu	Lys	Ala	Ser	Leu	Asn	Pro		
	35					40						45					
Lys	Ile	Gln	Ala	Cys	Ser	Leu	Ser	Asp	Gly	Phe	Ile	Ile	Val	Ala	Asp		
	50					55					60						
Gln	Ser	Val	Ile	Leu	Leu	Asp	Ser	Ile	Cys	Arg	Ser	Leu	Gln	Leu	His		
65					70					75					80		
Leu	Val	Phe	Asp	Thr	Glu	Val	Asp	Val	Val	Gly	Leu	Cys	Gln	Glu	Gly		
				85						90				95			
Lys	Phe	Leu	Leu	Val	Gly	Glu	Arg	Ser	Gly	Asn	Leu	His	Leu	Ile	His		
			100					105					110				
Val	Thr	Ser	Lys	Gln	Thr	Leu	Leu	Thr	Asn	Ala	Phe	Val	Gln	Lys	Ala		
	115					120						125					
Asn	Asp	Glu	Asn	Arg	Arg	Thr	Tyr	Gln	Asn	Leu	Val	Ile	Glu	Lys	Asp		
	130					135					140						
Gly	Ser	Asn	Glu	Gly	Thr	Tyr	Tyr	Met	Leu	Leu	Leu	Thr	Tyr	Ser	Gly		
145					150					155					160		
Phe	Phe	Cys	Ile	Thr	Asn	Leu	Gln	Leu	Leu	Lys	Ile	Gln	Gln	Ala	Ile		
			165					170						175			
Glu	Asn	Val	Asp	Phe	Ser	Thr	Ala	Lys	Lys	Leu	Gln	Gly	Gln	Ile	Lys		
			180					185					190				
Ser	Ser	Phe	Ile	Ser	Thr	Glu	Asn	Tyr	His	Thr	Leu	Gly	Cys	Leu	Ser		
	195					200						205					
Leu	Val	Ala	Gly	Asp	Leu	Ala	Ser	Glu	Val	Pro	Val	Ile	Ile	Gly	Gly		
	210					215						220					
Thr	Gly	Asn	Cys	Ala	Phe	Ser	Lys	Trp	Glu	Pro	Asp	Ser	Ser	Lys	Lys		
225					230					235					240		
Gly	Met	Thr	Val	Lys	Asn	Leu	Ile	Asp	Ala	Glu	Ile	Ile	Lys	Gly	Ala		
			245					250						255			
Lys	Lys	Phe	Gln	Leu	Ile	Asp	Asn	Leu	Leu	Phe	Val	Leu	Asp	Thr	Asp		

			260					265					270			
Asn	Val	Leu	Ser	Leu	Trp	Asp	Ile	Tyr	Thr	Leu	Thr	Pro	Val	Trp	Asn	
		275					280					285				
Trp	Pro	Ser	Leu	His	Val	Glu	Glu	Phe	Leu	Leu	Thr	Thr	Glu	Ala	Asp	
	290					295					300					
Ser	Pro	Ser	Ser	Val	Thr	Trp	Gln	Gly	Ile	Thr	Asn	Leu	Lys	Leu	Ile	
305					310					315					320	
Ala	Leu	Thr	Ala	Ser	Ala	Asn	Lys	Lys	Met	Lys	Asn	Leu	Met	Val	Tyr	
			325					330						335		
Ser	Leu	Pro	Thr	Met	Glu	Ile	Leu	Tyr	Ser	Leu	Glu	Val	Ser	Ser	Val	
			340					345					350			
Ser	Ser	Leu	Val	Gln	Thr	Gly	Ile	Ser	Thr	Asp	Thr	Ile	Tyr	Leu	Leu	
	355					360					365					
Glu	Gly	Val	Cys	Lys	Asn	Asp	Pro	Lys	Leu	Ser	Glu	Asp	Ser	Val	Ser	
	370					375					380					
Val	Leu	Val	Leu	Arg	Cys	Leu	Thr	Glu	Ala	Leu	Pro	Glu	Asn	Arg	Leu	
385					390					395					400	
Ser	Arg	Leu	Leu	His	Lys	His	Arg	Phe	Ala	Glu	Ala	Glu	Ser	Phe	Ala	
			405					410						415		
Ile	Gln	Phe	Gly	Leu	Asp	Val	Glu	Leu	Val	Tyr	Lys	Val	Lys	Ser	Asn	
			420					425					430			
His	Ile	Leu	Glu	Lys	Leu	Ala	Leu	Ser	Ser	Val	Asp	Ala	Ser	Glu	Gln	
	435					440					445					
Thr	Glu	Trp	Gln	Gln	Leu	Val	Asp	Asp	Ala	Lys	Glu	Asn	Leu	His	Lys	
	450					455					460					
Ile	Gln	Asp	Asp	Glu	Phe	Val	Val	Asn	Tyr	Cys	Leu	Lys	Ala	Gln	Trp	
465					470				475						480	
Ile	Thr	Tyr	Glu	Thr	Thr	Gln	Glu	Met	Leu	Asn	Tyr	Ala	Lys	Thr	Arg	
			485					490						495		
Leu	Leu	Lys	Lys	Glu	Asp	Lys	Thr	Ala	Leu	Ile	Tyr	Ser	Asp	Gly	Leu	
			500					505					510			
Lys	Glu	Val	Leu	Arg	Ala	His	Ala	Lys	Leu	Thr	Thr	Phe	Tyr	Gly	Ala	
	515					520						525				
Phe	Gly	Pro	Glu	Lys	Phe	Ser	Gly	Ser	Ser	Trp	Ile	Glu	Phe	Leu	Asn	
	530					535					540					
Asn	Glu	Asp	Asp	Leu	Lys	Asp	Ile	Phe	Leu	Gln	Leu	Lys	Glu	Gly	Asn	
545					550					555					560	
Leu	Val	Cys	Ala	Gln	Tyr	Leu	Trp	Leu	Arg	His	Arg	Ala	Asn	Phe	Glu	
			565					570						575		
Ser	Arg	Phe	Asp	Val	Lys	Met	Leu	Glu	Ser	Leu	Leu	Asn	Ser	Met	Ser	
			580					585					590			
Ala	Ser	Val	Ser	Leu	Gln	Lys	Leu	Cys	Pro	Trp	Phe	Lys	Asn	Asp	Val	
	595															

690	695	700
Lys Leu Ala Leu Ser Asp Phe Glu Lys Glu Asn Thr Thr Thr Ile Val		
705	710	715
Phe Arg Met Phe Asp Lys Val Leu Ala Pro Glu Leu Ile Pro Ser Ile		
	725	730
Leu Glu Lys Phe Ile Arg Val Tyr Met Arg Glu His Asp Leu Gln Glu		
	740	745
Glu Glu Leu Leu Leu Leu Tyr Ile Glu Asp Leu Leu Asn Arg Cys Ser		
	755	760
Ser Lys Ser Thr Ser Leu Phe Glu Thr Ala Trp Glu Ala Lys Ala Met		
	770	775
Ala Val Ile Ala Cys Leu Ser Asp Thr Asp Leu Ile Phe Asp Ala Val		
785	790	795
Leu Lys Ile Met Tyr Ala Ala Val Val Pro Trp Ser Ala Ala Val Glu		
	805	810
Gln Leu Val Lys Gln His Leu Glu Met Asp His Pro Lys Val Lys Leu		
	820	825
Leu Gln Glu Ser Tyr Lys Leu Met Glu Met Lys Lys Leu Leu Arg Gly		
	835	840
Tyr Gly Ile Arg Glu Val Asn Leu Leu Asn Lys Glu Ile Met Arg Val		
	850	855
Val Arg Tyr Ile Leu Lys Gln Asp Val Pro Ser Ser Leu Glu Asp Ala		
865	870	875
Leu Lys Val Ala Gln Ala Phe Met Leu Ser Asp Asp Glu Ile Tyr Ser		
	885	890
Leu Arg Ile Ile Asp Leu Ile Asp Arg Glu Gln Gly Glu Asp Cys Leu		
	900	905
Leu Leu Leu Lys Ser Leu Pro Pro Ala Glu Ala Glu Lys Thr Ala Glu		
	915	920
Arg Val Ile Ile Trp Ala Arg Leu Ala Leu Gln Glu Glu Pro Asp His		
	930	935
Ser Lys Glu Gly Lys Ala Trp Arg Met Ser Val Ala Lys Thr Ser Val		
945	950	955
Asp Ile Leu Lys Ile Leu Cys Asp Ile Gln Lys Asp Asn Leu Gln Lys		
	965	970
Lys Asp Glu Cys Glu Glu Met Leu Lys Leu Phe Lys Glu Val Ala Ser		
	980	985
Leu Gln Glu Asn Phe Glu Val Phe Leu Ser Phe Glu Asp Tyr Ser Asn		
	995	1000
Ser Ser Leu Val Ala Asp Leu Arg Glu Gln His Ile Lys Ala His Glu		
	1010	1015
Val Ala Gln Ala Lys His Lys Pro Gly Ser Thr Pro Glu Pro Ile Ala		
1025	1030	1035
Ala Glu Val Arg Ser Pro Ser Met Glu Ser Lys Leu His Arg Gln Ala		
	1045	1050
Leu Ala Leu Gln Met Ser Lys Gln Glu Leu Glu Ala Glu Leu Thr Leu		
	1060	1065
Arg Ala Leu Lys Asp Gly Asn Ile Lys Thr Ala Leu Lys Lys Cys Ser		
	1075	1080
Asp Leu Phe Lys Tyr His Cys Asn Ala Asp Thr Gly Lys Leu Leu Phe		
	1090	1095
Leu Thr Cys Gln Lys Leu Cys Gln Met Leu Ala Asp Asn Val Pro Val		
1105	1110	1115
Thr Val Pro Val Gly Leu Asn Leu Pro Ser Met Ile His Asp Leu Ala		

1125																1130				1135							
Ser	Gln	Ala	Ala	Thr	Ile	Cys	Ser	Pro	Asp	Phe	Leu	Leu	Asp	Ala	Leu												
1140																1145				1150							
Glu	Leu	Cys	Lys	His	Thr	Leu	Met	Ala	Val	Glu	Leu	Ser	Arg	Gln	Cys												
1155																1160				1165							
Gln	Met	Asp	Asp	Cys	Gly	Ile	Leu	Met	Lys	Ala	Ser	Phe	Gly	Thr	His												
1170																1175				1180							
Lys	Asp	Pro	Tyr	Glu	Glu	Trp	Ser	Tyr	Ser	Asp	Phe	Phe	Ser	Glu	Asp												
1185																1190				1195				1200			
Gly	Ile	Val	Leu	Glu	Ser	Gln	Met	Val	Leu	Pro	Val	Ile	Tyr	Glu	Leu												
1205																1210				1215							
Ile	Ser	Ser	Leu	Val	Pro	Leu	Ala	Glu	Ser	Lys	Arg	Tyr	Pro	Leu	Glu												
1220																1225				1230							
Ser	Thr	Ser	Leu	Pro	Tyr	Cys	Ser	Leu	Asn	Glu	Gly	Asp	Gly	Leu	Val												
1235																1240				1245							
Leu	Pro	Val	Ile	Asn	Ser	Ile	Ser	Ala	Leu	Leu	Gln	Asn	Leu	Gln	Glu												
1250																1255				1260							
Ser	Ser	Gln	Trp	Glu	Leu	Ala	Leu	Arg	Phe	Val	Val	Gly	Ser	Phe	Gly												
1265																1270				1275				1280			
Thr	Cys	Leu	Gln	His	Ser	Val	Ser	Asn	Phe	Met	Asn	Ala	Thr	Leu	Ser												
1285																1290				1295							
Glu	Lys	Leu	Phe	Gly	Glu	Thr	Thr	Leu	Val	Lys	Ser	Arg	His	Val	Val												
1300																1305				1310							
Met	Glu	Leu	Lys	Glu	Lys	Ala	Val	Ile	Phe	Ile	Arg	Glu	Asn	Ala	Thr												
1315																1320				1325							
Thr	Leu	Leu	His	Lys	Val	Phe	Asn	Cys	Arg	Leu	Val	Asp	Leu	Asp	Leu												
1330																1335				1340							
Ala	Leu	Gly	Tyr	Cys	Thr	Leu	Leu	Pro	Gln	Lys	Asp	Val	Phe	Glu	Asn												
1345																1350				1355				1360			
Leu	Trp	Lys	Leu	Ile	Asp	Lys	Ala	Trp	Gln	Asn	Tyr	Asp	Lys	Ile	Leu												
1365																1370				1375							
Ala	Ile	Ser	Leu	Val	Gly	Ser	Glu	Leu	Ala	Ser	Leu	Tyr	Gln	Glu	Ile												
1380																1385				1390							
Glu	Met	Gly	Leu	Lys	Phe	Arg	Glu	Leu	Ser	Thr	Asp	Ala	Gln	Trp	Gly												
1395																1400				1405							
Ile	Arg	Leu	Gly	Lys	Leu	Gly	Ile	Ser	Phe	Gln	Pro	Val	Phe	Arg	Gln												
1410																1415				1420							
His	Phe	Leu	Thr	Lys	Lys	Asp	Leu	Ile	Lys	Ala	Leu	Val	Glu	Asn	Ile												
1425																1430				1435				1440			
Asp	Met	Asp	Thr	Ser	Leu	Ile	Leu	Glu	Tyr	Cys	Ser	Thr	Phe	Gln	Leu												
1445																1450				1455							
Asp	Cys	Asp	Ala	Val	Leu	Gln	Leu	Phe	Ile	Glu	Thr	Leu	Leu	His	Asn												
1460																1465				1470							
Thr	Asn	Ala	Gly	Gln	Gly	Gln	Gly	Asp	Ala	Ser	Met	Asp	Ser	Ala	Lys												
1475																1480				1485							
Arg	Arg	His	Pro	Lys	Leu	Leu	Ala	Lys	Ala	Leu	Glu	Met	Val	Pro	Leu												
1490																1495				1500							
Leu	Thr	Ser	Thr	Lys	Asp	Leu	Val	Ile	Ser	Leu	Ser	Gly	Ile	Leu	His												
1505																1510				1515				1520			
Lys	Leu	Asp	Pro	Tyr	Asp	Tyr	Glu	Met	Ile	Glu	Val	Val	Leu	Lys	Val												
1525																1530				1535							
Ile	Glu	Arg	Ala	Asp	Glu	Lys	Ile	Thr	Asn	Ile	Asn	Ile	Asn	Gln	Ala												
1540																1545</											

1555	1560	1565
Val Asp Leu Glu Tyr Gln Tyr Met Leu Glu His	Val Ile Thr Leu Pro	
1570	1575	1580
Ser Ala Ala Gln Thr Arg Leu Pro Phe His Leu Ile Phe Phe Gly Thr		
1585	1590	1595
Ala Gln Asn Phe Trp Lys Ile Leu Ser Thr Glu Leu Ser Glu Glu Ser		1600
1605	1610	1615
Phe Pro Thr Leu Leu Leu Ile Ser Lys Leu Met Lys Phe Ser Leu Asp		
1620	1625	1630
Thr Leu Tyr Val Ser Thr Ala Lys His Val Phe Glu Lys Lys Leu Lys		
1635	1640	1645
Pro Lys Leu Leu Lys Leu Thr Gln Ala Lys Ser Ser Thr Leu Ile Asn		
1650	1655	1660
Lys Glu Ile Thr Lys Ile Thr Gln Thr Ile Glu Ser Cys Leu Leu Ser		
1665	1670	1675
Ile Val Asn Pro Glu Trp Ala Val Ala Ile Ala Ile Ser Leu Ala Gln		
1685	1690	1695
Asp Ile Pro Glu Gly Ser Phe Lys Ile Ser Ala Leu Lys Phe Cys Leu		
1700	1705	1710
Tyr Leu Ala Glu Arg Trp Leu Gln Asn Ile Pro Ser Gln Asp Glu Lys		
1715	1720	1725
Arg Glu Lys Ala Glu Ala Leu Leu Lys Lys Leu His Ile Gln Tyr Arg		
1730	1735	1740
Arg Ser Gly Thr Glu Ala Val Leu Ile Ala His Lys Leu Asn Thr Glu		
1745	1750	1755
Glu Tyr Leu Arg Val Ile Gly Lys Pro Ala His Leu Ile Val Ser Leu		
1765	1770	1775
Tyr Glu His Pro Ser Ile Asn Gln Arg Ile Gln Asn Ser Ser Gly Thr		
1780	1785	1790
Asp Tyr Pro Asp Ile His Ala Ala Ala Lys Glu Ile Ala Glu Val Asn		
1795	1800	1805
Glu Ile Asn Leu Glu Lys Val Trp Asp Met Leu Leu Glu Lys Trp Leu		
1810	1815	1820
Cys Pro Ser Thr Lys Pro Gly Glu Lys Pro Ser Glu Leu Phe Glu Leu		
1825	1830	1835
Gln Glu Asp Glu Ala Leu Arg Arg Val Gln Tyr Leu Leu Leu Ser Arg		
1845	1850	1855
Pro Ile Asp Tyr Ser Ser Arg Met Leu Phe Val Phe Ala Thr Ser Thr		
1860	1865	1870
Thr Thr Thr Leu Gly Met His Gln Leu Thr Phe Ala His Arg Thr Arg		
1875	1880	1885
Ala Leu Gln Cys Leu Phe Tyr Leu Ala Asp Lys Glu Thr Ile Glu Ser		
1890	1895	1900
Leu Phe Lys Lys Pro Ile Glu Glu Val Lys Ser Tyr Leu Arg Cys Ile		
1905	1910	1915
Thr Phe Leu Ala Ser Phe Glu Thr Leu Asn Ile Pro Ile Thr Tyr Glu		
1925	1930	1935
Leu Phe Cys Ser Ser Pro Lys Glu Gly Met Ile Lys Gly Leu Trp Lys		
1940	1945	1950
Asn His Ser His Glu Ser Met Ala Val Arg Leu Val Thr Glu Leu Cys		
1955	1960	1965
Leu Glu Tyr Lys Ile Tyr Asp Leu Gln Leu Trp Asn Gly Leu Leu Gln		
1970	1975	1980
Lys Leu Leu Gly Phe Asn Met Ile Pro Tyr Leu Arg Lys Val Leu Lys		

1985		1990		1995		2000
Ala Ile Ser Ser Ile His Ser Leu Trp Gln Val Pro Tyr Phe Ser Lys						
	2005		2010		2015	
Ala Trp Gln Arg Val Ile Gln Ile Pro Leu Leu Ser Ala Ser Cys Pro						
	2020		2025		2030	
Leu Ser Pro Asp Gln Leu Ser Asp Cys Ser Glu Ser Leu Ile Ala Val						
	2035		2040		2045	
Leu Glu Cys Pro Val Ser Gly Asp Leu Asp Leu Ile Gly Val Ala Arg						
	2050		2055		2060	
Gln Tyr Ile Gln Leu Glu Leu Pro Ala Phe Ala Leu Ala Cys Leu Met						
2065		2070		2075		2080
Leu Met Pro His Ser Glu Lys Arg His Gln Gln Ile Lys Asn Phe Leu						
	2085		2090		2095	
Gly Ser Cys Asp Pro Gln Val Ile Leu Lys Gln Leu Glu Glu His Met						
	2100		2105		2110	
Asn Thr Gly Gln Leu Ala Gly Phe Ser His Gln Ile Arg Ser Leu Ile						
	2115		2120		2125	
Leu Asn Asn Ile Ile Asn Lys Lys Glu Phe Gly Ile Leu Ala Lys Thr						
	2130		2135		2140	
Lys Tyr Phe Gln Met Leu Lys Met His Ala Met Asn Thr Asn Asn Ile						
2145		2150		2155		2160
Thr Glu Leu Val Asn Tyr Leu Ala Asn Asp Leu Ser Leu Asp Glu Ala						
	2165		2170		2175	
Ser Val Leu Ile Thr Glu Tyr Ser Lys His Cys Gly Lys Pro Val Pro						
	2180		2185		2190	
Pro Asp Thr Ala Pro Cys Glu Ile Leu Lys Met Phe Leu Ser Gly Leu						
	2195		2200		2205	
Ser						

<210> 1904
 <211> 197
 <212> PRT
 <213> Homo sapiens

<400> 1904
 Met Gln Arg Ala Ser Arg Leu Lys Arg Glu Leu His Met Leu Ala Thr
 1 5 10 15
 Glu Pro Pro Pro Gly Ile Thr Cys Trp Gln Asp Lys Asp Gln Met Asp
 20 25 30
 Asp Leu Arg Ala Gln Ile Leu Gly Gly Ala Asn Thr Pro Tyr Glu Lys
 35 40 45
 Gly Val Phe Lys Leu Glu Val Ile Ile Pro Glu Arg Tyr Pro Phe Glu
 50 55 60
 Pro Pro Gln Ile Arg Phe Leu Thr Pro Ile Tyr His Pro Asn Ile Asp
 65 70 75 80
 Ser Ala Gly Arg Ile Cys Leu Asp Val Leu Lys Leu Pro Pro Lys Gly
 85 90 95
 Ala Trp Arg Pro Ser Leu Asn Ile Ala Thr Val Leu Thr Ser Ile Gln
 100 105 110
 Leu Leu Met Ser Glu Pro Asn Pro Asp Asp Pro Leu Met Ala Asp Ile
 115 120 125
 Ser Ser Glu Phe Lys Tyr Asn Lys Pro Ala Phe Leu Lys Asn Ala Arg

130		135		140
Gln Trp Thr Glu Lys His Ala Arg Gln Lys Gln Lys Ala Asp Glu Glu				
145		150		155
Glu Met Leu Asp Asn Leu Pro Glu Ala Gly Asp Ser Arg Val His Asn				
	165		170	175
Ser Thr Gln Lys Arg Lys Ala Ser Gln Leu Val Gly Ile Glu Lys Lys				
	180		185	190
Phe His Pro Asp Val				
195				

<210> 1905

<211> 202

<212> PRT

<213> Homo sapiens

<400> 1905

Met Ala Thr Leu Ile Tyr Val Asp Lys Glu Asn Gly Glu Pro Gly Thr				
1	5	10	15	
Arg Val Val Ala Lys Asp Gly Leu Lys Leu Gly Ser Gly Pro Ser Ile				
	20	25	30	
Lys Ala Leu Asp Gly Arg Ser Gln Val Ser Thr Pro Arg Phe Gly Lys				
	35	40	45	
Thr Phe Asp Ala Pro Pro Ala Leu Pro Lys Ala Thr Arg Lys Ala Leu				
	50	55	60	
Gly Thr Val Asn Arg Ala Thr Glu Lys Ser Val Lys Thr Lys Gly Pro				
65	70	75	80	
Leu Lys Gln Lys Gln Pro Ser Phe Ser Ala Lys Lys Met Thr Glu Lys				
	85	90	95	
Thr Val Lys Ala Lys Ser Ser Val Pro Ala Ser Asp Asp Ala Tyr Pro				
	100	105	110	
Glu Ile Glu Lys Phe Phe Pro Phe Asn Pro Leu Asp Phe Glu Ser Phe				
	115	120	125	
Asp Leu Pro Glu Glu His Gln Ile Ala His Leu Pro Leu Ser Gly Val				
	130	135	140	
Pro Leu Met Ile Leu Asp Glu Glu Arg Glu Leu Glu Lys Leu Phe Gln				
145	150	155	160	
Leu Gly Pro Pro Ser Pro Val Lys Met Pro Ser Pro Pro Trp Glu Ser				
	165	170	175	
Asn Leu Leu Gln Ser Pro Ser Ser Ile Leu Ser Thr Leu Asp Val Glu				
	180	185	190	
Leu Pro Pro Val Cys Cys Asp Ile Asp Ile				
195	200			

<210> 1906

<211> 464

<212> PRT

<213> Homo sapiens

<400> 1906

Met Glu Thr Leu Ser Phe Pro Arg Tyr Asn Ile Ala Glu Ile Val Val				
1	5	10	15	
His Ile Arg Asn Lys Leu Leu Thr Gly Ala Asp Gly Lys Asn Leu Ser				

			20					25				30				
Lys	Ser	Asp	Phe	Leu	Pro	Asn	Pro	Lys	Pro	Glu	Val	Leu	Tyr	Met	Ile	
		35					40					45				
Tyr	Met	Arg	Ala	Leu	Gln	Leu	Val	Tyr	Gly	Val	Arg	Leu	Glu	His	Phe	
	50					55					60					
Tyr	Met	Met	Pro	Val	Asn	Ile	Glu	Val	Met	Tyr	Pro	His	Ile	Met	Glu	
65					70				75						80	
Gly	Phe	Leu	Pro	Val	Ser	Asn	Leu	Phe	Phe	His	Leu	Asp	Ser	Phe	Met	
			85						90					95		
Pro	Ile	Cys	Arg	Val	Asn	Asp	Phe	Glu	Ile	Ala	Asp	Ile	Leu	Tyr	Pro	
			100					105					110			
Lys	Ala	Asn	Arg	Thr	Ser	Arg	Phe	Leu	Ser	Gly	Ile	Ile	Asn	Phe	Ile	
		115					120					125				
His	Phe	Arg	Glu	Thr	Cys	Leu	Glu	Lys	Tyr	Glu	Glu	Phe	Leu	Leu	Gln	
	130					135					140					
Asn	Lys	Ser	Ser	Val	Asp	Lys	Ile	Gln	Gln	Leu	Ser	Asn	Ala	His	Gln	
145					150					155					160	
Glu	Ala	Leu	Met	Lys	Leu	Glu	Lys	Leu	Asn	Ser	Val	Pro	Val	Glu	Glu	
			165						170					175		
Gln	Glu	Glu	Phe	Lys	Gln	Leu	Lys	Asp	Asp	Ile	Gln	Glu	Leu	Gln	His	
			180					185					190			
Leu	Leu	Asn	Gln	Asp	Phe	Arg	Gln	Lys	Thr	Thr	Leu	Leu	Gln	Glu	Arg	
		195					200					205				
Tyr	Thr	Lys	Met	Lys	Ser	Asp	Phe	Ser	Glu	Lys	Thr	Lys	His	Val	Asn	
	210					215					220					
Glu	Leu	Lys	Leu	Ser	Val	Val	Ser	Leu	Lys	Glu	Val	Gln	Asp	Ser	Leu	
225					230					235					240	
Lys	Ser	Lys	Ile	Val	Asp	Ser	Pro	Glu	Lys	Leu	Lys	Asn	Tyr	Lys	Glu	
			245					250					255			
Lys	Met	Lys	Asp	Thr	Val	Gln	Lys	Leu	Arg	Ser	Ala	Arg	Glu	Glu	Val	
			260					265					270			
Met	Glu	Lys	Tyr	Asp	Ile	Tyr	Arg	Asp	Ser	Val	Asp	Cys	Leu	Pro	Ser	
		275					280					285				
Cys	Gln	Leu	Glu	Val	Gln	Leu	Tyr	Gln	Lys	Lys	Ser	Gln	Asp	Leu	Ala	
	290					295					300					
Asp	Asn	Arg	Glu	Lys	Leu	Ser	Ser	Ile	Leu	Lys	Glu	Ser	Leu	Asn	Leu	
305					310					315					320	
Glu	Gly	Gln	Ile	Asp	Ser	Asp	Ser	Ser	Glu	Leu	Lys	Lys	Leu	Lys	Thr	
			325						330					335		
Glu	Glu	Asn	Ser	Leu	Ile	Arg	Leu	Met	Thr	Leu	Lys	Lys	Glu	Arg	Leu	
			340					345					350			
Ala	Thr	Met	Gln	Phe	Lys	Ile	Asn	Lys	Lys	Gln	Glu	Asp	Val	Lys	Gln	
		355					360					365				
Tyr	Lys	Arg	Thr	Met	Ile	Glu	Asp	Cys	Asn	Lys	Val	Gln	Glu	Lys	Arg	
	370					375					380					
Asp	Ala	Val	Cys	Glu	Gln	Val	Thr	Ala	Ile	Asn	Gln	Asp	Ile	His	Lys	
385					390					395					400	
Ile	Lys	Ser	Gly	Ile	Gln	Gln	Leu	Arg	Asp	Ala	Glu	Lys	Arg	Glu	Lys	
			405					410						415		
Leu	Lys	Ser	Gln	Glu	Ile	Leu	Val	Asp	Leu	Lys	Ser	Ala	Leu	Glu	Lys	
			420					425					430			
Tyr	His	Glu	Gly	Ile	Glu	Lys	Thr	Thr	Glu	Glu	Cys	Cys	Thr	Arg	Ile	
	435						440					445				
Gly	Gly	Lys	Thr	Ala	Glu	Leu	Lys	Arg	Arg	Met	Phe	Lys	Met	Pro	Pro	

450

455

460

<210> 1907

<211> 168

<212> PRT

<213> Homo sapiens

<400> 1907

Met	Ala	Glu	Pro	Trp	Gly	Asn	Glu	Leu	Ala	Ser	Ala	Ala	Ala	Arg	Gly
1				5					10					15	
Asp	Leu	Glu	Gln	Leu	Thr	Ser	Leu	Leu	Gln	Asn	Asn	Val	Asn	Val	Asn
			20					25					30		
Ala	Gln	Asn	Gly	Phe	Gly	Arg	Thr	Ala	Leu	Gln	Val	Met	Lys	Leu	Gly
		35					40					45			
Asn	Pro	Glu	Ile	Ala	Arg	Arg	Leu	Leu	Leu	Arg	Gly	Ala	Asn	Pro	Asp
	50					55					60				
Leu	Lys	Asp	Arg	Thr	Gly	Phe	Ala	Val	Ile	His	Asp	Ala	Ala	Arg	Ala
65					70					75					80
Gly	Phe	Leu	Asp	Thr	Leu	Gln	Thr	Leu	Leu	Glu	Phe	Gln	Ala	Asp	Val
			85					90						95	
Asn	Ile	Glu	Asp	Asn	Glu	Gly	Asn	Leu	Pro	Leu	His	Leu	Ala	Ala	Lys
			100					105					110		
Glu	Gly	His	Leu	Arg	Val	Val	Glu	Phe	Leu	Val	Lys	His	Thr	Ala	Ser
		115					120					125			
Asn	Val	Gly	His	Arg	Asn	His	Lys	Gly	Asp	Thr	Ala	Cys	Asp	Leu	Ala
	130					135					140				
Arg	Leu	Tyr	Gly	Arg	Asn	Glu	Val	Val	Ser	Leu	Met	Gln	Ala	Asn	Gly
145					150					155					160
Ala	Gly	Gly	Ala	Thr	Asn	Leu	Gln								
				165											

<210> 1908

<211> 156

<212> PRT

<213> Homo sapiens

<400> 1908

Met	Glu	Pro	Ala	Ala	Gly	Ser	Ser	Met	Glu	Pro	Ser	Ala	Asp	Trp	Leu
1				5					10					15	
Ala	Thr	Ala	Ala	Ala	Arg	Gly	Arg	Val	Glu	Glu	Val	Arg	Ala	Leu	Leu
			20					25					30		
Glu	Ala	Gly	Ala	Leu	Pro	Asn	Ala	Pro	Asn	Ser	Tyr	Gly	Arg	Arg	Pro
		35					40					45			
Ile	Gln	Val	Met	Met	Met	Gly	Ser	Ala	Arg	Val	Ala	Glu	Leu	Leu	Leu
	50					55					60				
Leu	His	Gly	Ala	Glu	Pro	Asn	Cys	Ala	Asp	Pro	Ala	Thr	Leu	Thr	Arg
65					70				75						80
Pro	Val	His	Asp	Ala	Ala	Arg	Glu	Gly	Phe	Leu	Asp	Thr	Leu	Val	Val
			85					90					95		
Leu	His	Arg	Ala	Gly	Ala	Arg	Leu	Asp	Val	Arg	Asp	Ala	Trp	Gly	Arg
			100					105					110		
Leu	Pro	Val	Asp	Leu	Ala	Glu	Glu	Leu	Gly	His	Arg	Asp	Val	Ala	Arg

115 120 125
 Tyr Leu Arg Ala Ala Ala Gly Gly Thr Arg Gly Ser Asn His Ala Arg
 130 135 140
 Ile Asp Ala Ala Glu Gly Pro Ser Asp Ile Pro Asp
 145 150 155

<210> 1909
 <211> 125
 <212> PRT
 <213> Homo sapiens

<400> 1909
 Met Lys Lys Ser Gly Val Leu Phe Leu Leu Gly Ile Ile Leu Leu Val
 1 5 10 15
 Leu Ile Gly Val Gln Gly Thr Pro Val Val Arg Lys Gly Arg Cys Ser
 20 25 30
 Cys Ile Ser Thr Asn Gln Gly Thr Ile His Leu Gln Ser Leu Lys Asp
 35 40 45
 Leu Lys Gln Phe Ala Pro Ser Pro Ser Cys Glu Lys Ile Glu Ile Ile
 50 55 60
 Ala Thr Leu Lys Asn Gly Val Gln Thr Cys Leu Asn Pro Asp Ser Ala
 65 70 75 80
 Asp Val Lys Glu Leu Ile Lys Lys Trp Glu Lys Gln Val Ser Gln Lys
 85 90 95
 Lys Lys Gln Lys Asn Gly Lys Lys His Gln Lys Lys Lys Val Leu Lys
 100 105 110
 Val Arg Lys Ser Gln Arg Ser Arg Gln Lys Lys Thr Thr
 115 120 125

<210> 1910
 <211> 931
 <212> DNA
 <213> Homo sapiens

<400> 1910
 caacagtcag aggtcgcgca ggcgctggta ccccgttggt ccgcgcgcttg ctgcgcttggtg 60
 aggggtgtca gctcagtgca tcccaggcag ctcttagtgt ggagcagtgga actgtgtgtgtg 120
 gttccttcta cttggggatc atgcagagag cttcrgctct gaagagagag ctgcacatgt 180
 tagccacaga gccaccccca ggcattcacat gttggcaaga taaagaccaa atggatgacc 240
 tgcgagctca aatattaggt ggagccaaca caccttatga gaaaggtgtt tttaagctag 300
 aagttatcat tcctgagagg taccattttg aacctcctca gatccgattt ctactccaa 360
 tttatcatcc aaacattgat tctgctggaa ggatttgtct ggatgttctc aaattgccac 420
 caaaaggtgc ttggagacca tccctcaaca tcgcaactgt gttgacctct attcagctgc 480
 tcatgtcaga acccaaccct gatgaccgcg tcatggctga catatcctca gaatttaa 540
 ataataagcc agccttcctc aagaatgcc aacagtgagc agagaagcat gcaagacaga 600
 aacaaaaggc tgatgaggaa gagatgcttg ataactacc agaggctggg gactccagag 660
 tacacaactc aacacagaaa aggaaggcca gtcagctagt aggcatagaa aagaaatttc 720
 atcctgatgt ttaggggact tgccttggtt catcttagtt aatgtgttct ttgccaagggt 780
 gatctaagtt gcctaccttg aatttttttt taaatatatt tgatgacata atttttgtgt 840
 agtttattta tcttgatcat atgtattttg aaatctttta aacctgaaaa ataaatagtc 900
 atttaagtgt gaaaaaaaaa aaaaaaaaaa a 931

<220>
<223> PCR primer

27

<220>
<223> PCR primer

37

<400> 1913															
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			20					25					30		
Glu	His	Lys	Lys	Lys	Asn	Pro	Glu	Val	Pro	Val	Asn	Phe	Ala	Glu	Phe
		35					40					45			
Ser	Lys	Lys	Cys	Ser	Glu	Arg	Trp	Lys	Thr	Met	Ser	Gly	Lys	Glu	Lys
	50					55					60				
Ser	Lys	Phe	Asp	Glu	Met	Ala	Lys	Ala	Asp	Lys	Val	Arg	Tyr	Asp	Arg
65					70					75					80
Glu	Met	Lys	Asp	Tyr	Gly	Pro	Ala	Lys	Gly	Gly	Lys	Lys	Lys	Lys	Asp
				85					90					95	
Pro	Asn	Ala	Pro	Lys	Arg	Pro	Pro	Ser	Gly	Phe	Phe	Leu	Phe	Cys	Ser
			100					105						110	
Glu	Phe	Arg	Pro	Lys	Ile	Lys	Ser	Thr	Asn	Pro	Gly	Ile	Ser	Ile	Gly
		115					120					125			
Asp	Val	Ala	Lys	Lys	Leu	Gly	Glu	Met	Trp	Asn	Asn	Leu	Asn	Asp	Ser
	130					135					140				
Glu	Lys	Gln	Pro	Tyr	Ile	Thr	Lys	Ala	Ala	Lys	Leu	Lys	Glu	Lys	Tyr
145					150					155					160
Glu	Lys	Asp	Val	Ala	Asp	Tyr	Lys	Ser	Lys	Gly	Lys	Phe	Asp	Gly	Ala
				165					170					175	
Lys	Gly	Pro	Ala	Lys	Val	Ala	Arg	Lys	Lys	Val	Glu	Glu	Glu	Asp	Glu
			180					185					190		
Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Glu	Asp	Glu	
		195					200						205		

<210> 1914
 <211> 624
 <212> DNA
 <213> Homo sapiens

<400> 1914
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 tccgcttatg ccttctttgt gcagacatgc agagaagaac ataagaagaa aaaccacagag 120
 gtccctgtca attttgcgga attttccaag aagtgtctctg agaggtggaa gacgatgtcc 180
 gggaaagaga aatctaaatt tgatgaaatg gcaaaggcag ataaagtgcg ctatgatcgg 240
 gaaatgaagg attatggacc agctaaggga ggcaagaaga agaaggatcc taatgctccc 300
 aaaaggccac cgtctggatt ctctctgttc tgttcagaat tccgccccaa gatcaaatcc 360
 acaaaccctcg gcatctctat tggagacgtg gcaaaaaagc tgggtgagat gtggaataat 420
 ttaaattgaca gtgaaaagca gccttacatc actaaggcgg caaagctgaa ggagaagtat 480
 gagaaggatg ttgctgacta taagtcgaaa ggaaagtgtt atggtgcaaa ggggccagct 540
 aaagttgccc ggaaaaaggt ggaagaggaa gatgaagaag aggaggagga agaagaggag 600
 gaggaggagg aggaggatga ataa 624

<210> 1915
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1915
 gtgacgatgg aggagctgcg ggagatgg 28

<210> 1916
 <211> 30
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1916
 cgcctaactc gagtcactaa cagctgggag 30

<210> 1917
 <211> 401
 <212> PRT
 <213> Homo sapiens

<400> 1917
 Met Gln His His His His His Val Thr Met Glu Glu Leu Arg Glu
 1 5 10 15
 Met Asp Cys Ser Val Leu Lys Arg Leu Met Asn Arg Asp Glu Asn Gly
 20 25 30
 Gly Gly Ala Gly Gly Ser Gly Ser His Gly Thr Leu Gly Leu Pro Ser
 35 40 45

Gly	Gly	Lys	Cys	Leu	Leu	Leu	Asp	Cys	Arg	Pro	Phe	Leu	Ala	His	Ser
50						55					60				
Ala	Gly	Tyr	Ile	Leu	Gly	Ser	Val	Asn	Val	Arg	Cys	Asn	Thr	Ile	Val
65					70					75					80
Arg	Arg	Arg	Ala	Lys	Gly	Ser	Val	Ser	Leu	Glu	Gln	Ile	Leu	Pro	Ala
				85					90					95	
Glu	Glu	Glu	Val	Arg	Ala	Arg	Leu	Arg	Ser	Gly	Leu	Tyr	Ser	Ala	Val
			100					105						110	
Ile	Val	Tyr	Asp	Glu	Arg	Ser	Pro	Arg	Ala	Glu	Ser	Leu	Arg	Glu	Asp
		115					120					125			
Ser	Thr	Val	Ser	Leu	Val	Val	Gln	Ala	Leu	Arg	Arg	Asn	Ala	Glu	Arg
		130				135					140				
Thr	Asp	Ile	Cys	Leu	Leu	Lys	Gly	Gly	Tyr	Glu	Arg	Phe	Ser	Ser	Glu
145					150					155					160
Tyr	Pro	Glu	Phe	Cys	Ser	Lys	Thr	Lys	Ala	Leu	Ala	Ala	Ile	Pro	Pro
				165					170					175	
Pro	Val	Pro	Pro	Ser	Ala	Thr	Glu	Pro	Leu	Asp	Leu	Gly	Cys	Ser	Ser
			180					185					190		
Cys	Gly	Thr	Pro	Leu	His	Asp	Gln	Gly	Gly	Pro	Val	Glu	Ile	Leu	Pro
		195					200					205			
Phe	Leu	Tyr	Leu	Gly	Ser	Ala	Tyr	His	Ala	Ala	Arg	Arg	Asp	Met	Leu
		210				215					220				
Asp	Ala	Leu	Gly	Ile	Thr	Ala	Leu	Leu	Asn	Val	Ser	Ser	Asp	Cys	Pro
225					230					235					240
Asn	His	Phe	Glu	Gly	His	Tyr	Gln	Tyr	Lys	Cys	Ile	Pro	Val	Glu	Asp
				245					250					255	
Asn	His	Lys	Ala	Asp	Ile	Ser	Ser	Trp	Phe	Met	Glu	Ala	Ile	Glu	Tyr
			260					265					270		
Ile	Asp	Ala	Val	Lys	Asp	Cys	Arg	Gly	Arg	Val	Leu	Val	His	Cys	Gln
		275					280					285			
Ala	Gly	Ile	Ser	Arg	Ser	Ala	Thr	Ile	Cys	Leu	Ala	Tyr	Leu	Met	Met
		290				295					300				
Lys	Lys	Arg	Val	Arg	Leu	Glu	Glu	Ala	Phe	Glu	Phe	Val	Lys	Gln	Arg
305					310					315					320
Arg	Ser	Ile	Ile	Ser	Pro	Asn	Phe	Ser	Phe	Met	Gly	Gln	Leu	Leu	Gln
				325					330					335	
Phe	Glu	Ser	Gln	Val	Leu	Ala	Thr	Ser	Cys	Ala	Ala	Glu	Ala	Ala	Ser
			340					345					350		
Pro	Ser	Gly	Pro	Leu	Arg	Glu	Arg	Gly	Lys	Thr	Pro	Ala	Thr	Pro	Thr
		355					360					365			
Ser	Gln	Phe	Val	Phe	Ser	Phe	Pro	Val	Ser	Val	Gly	Val	His	Ser	Ala
		370				375					380				
Pro	Ser	Ser	Leu	Pro	Tyr	Leu	His	Ser	Pro	Ile	Thr	Thr	Ser	Pro	Ser
385					390					395					400
Cys															

<210> 1918

<211> 1209

<212> DNA

<213> Homo sapiens

<400> 1918


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cacggcaccc tggggctgcc gageggcggc aagtgcctgc tgctggactg cagaccgttc 180
ctggcgcaca gcgcgggcta catcctaggt tcgggtcaacg tgcgctgtaa caccatcgtg 240
cggcggcggg ctaagggctc cgtgagcctg gagcagatcc tgcccgcga ggaggaggta 300
cgcgcccgtc tgcgtccgg cctctactcg gcggtcatcg tctacgacga gcgcagcccg 360
cgcgccgaga gcctccgga ggacagcacc gtgtcgtg tgggtgcaggc gctgcgccgc 420
aacgcccgag gcaccgacat ctgcctgctc aaaggcggt atgagagggt ttcctccgag 480
taccagaat tctgttctaa aaccaaggcc ctggcagcca tcccaccccc ggttcccccc 540
agtgccacag agcccttgg cctgggctgc agctcctgtg ggacccccact acacgaccag 600
gggggtcctg tggagatcct tcccttcctc tacctcggca gtgcctacca tgctgcccgg 660
agagacatgc tggacgccct gggcatcacg gctctgttga atgtctcctc ggactgccca 720
aaccactttg aaggacacta tcagtacaag tgcattccag tggaagataa ccacaaggcc 780
gacatcagct cctggttcat ggaagccata gattacatcg atgccgtgaa ggactgccgt 840
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ggcaagacc ccgccacccc cacctcgcag ttcgtcttca gctttccggt ctccgtgggc 1140
gtgcactcgg ccccagcag cctgccctac ctgcacagcc ccattaccac ctctcccagc 1200
tgtagtga 1209

```

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<210> 1919
<211> 23
<212> DNA
<213> Artificial Sequence

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```

<220>
<223> PCR primer

```

```

<400> 1919
cgggtgccacg cccatggacc ttc 23

```

```

<210> 1920
<211> 35
<212> DNA
<213> Artificial Sequence

```

```

<220>
<223> PCR primer

```

```

<400> 1920
ctgagaattc attaaacttg tggttgctct tcacc 35

```

```

<210> 1921
<211> 167
<212> PRT
<213> Homo sapiens

```

```

<400> 1921
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Cys Leu Val Thr Ala Ile Thr Arg Glu Glu Gly Gly Pro Arg Ser Gly
          20           25           30

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Gly	Ala	Gln	Ala	Lys	Leu	Gly	Cys	Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg
	35					40					45				
Ser	Thr	Trp	Asn	Pro	Asp	Arg	Arg	Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro
	50					55					60				
Gly	Glu	Gly	Arg	His	Glu	Arg	His	Thr	Gln	Thr	Gln	Asn	His	Thr	Ala
65					70				75						80
Ser	Pro	Arg	Ser	Pro	Val	Met	Glu	Ser	Pro	Lys	Lys	Lys	Asn	Gln	Gln
				85					90					95	
Leu	Lys	Val	Gly	Ile	Leu	His	Leu	Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg
			100					105					110		
Ile	Gln	Leu	Arg	Ser	Gln	Cys	Ala	Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser
	115						120					125			
Cys	Ile	Ser	Gln	Thr	Pro	Gly	Ile	Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val
	130					135					140				
Lys	Val	Lys	Ile	Ile	Pro	Lys	Glu	Glu	His	Cys	Lys	Met	Pro	Glu	Ala
145					150					155					160
Gly	Glu	Glu	Gln	Pro	Gln	Val									
					165										

<210> 1922
 <211> 507
 <212> DNA
 <213> Homo sapiens

<400> 1922
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 gccataacta gggaggaagg agggccgagg agtggagggg ctcaggcgaa gctgggggtgc 120
 tggtgggggt atccgagtcc cagaagcacc tggaaacccg acagaagatt ctggactccc 180
 cagacgggac caggagaggg acggcatgag cgacacacac aaacacagaa ccacacagcc 240
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 acatggaagg tgatctgcaa gagctgcacg agtcaaacac cggggataaa tctggatttg 420
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 ggtgaagagc aaccacaagt ttaatga 507

<210> 1923
 <211> 3192
 <212> DNA
 <213> Homo sapiens

<400> 1923
 cccacgcgtc cggcgggtgc cgcgggattt ggagctgcct agcctcgcgg tcgctttggc 60
 agcatgtaag cagctgtttg ccaagaaccc aggtcactgc taagaaaggg tgccttcggg 120
 agaagagtgt ccagaggata ccaatgccag atgcatctgg agttacactc agcactcgca 180
 gtatgagaca ttgtgtgcca gcatctcttt ccttctggca aagactgtag ctctccaggt 240
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 tgaactctct accatgaaca tggttctcgg cttatgaagg aattttaagt aaaacagtta 360
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 cacaggagtt atcaggattt ttctggcacc aagtttaatt cttcttcgta cttctggtag 480
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 cagaaactcc atctggactc ggatgctttt actgaagacc catctagctt caatcatctt 660
 tagagtccat ccattctgga gagacctggc gtttgagctt gcctcctgtg gccgtgtttt 720

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tctgtcattc tgttcccagg ccttctattc aggcggttga aggggtgtgga ctttggaatg 780
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aatggagcga ggagccaagg agaagaacca ccagctttac aagccctaca ccaacggaat 1140
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tgaaaaaaaa aa 3192

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<210> 1924
 <211> 2048
 <212> DNA
 <213> Homo sapiens

<220>
 <221> misc_feature
 <222> 787, 1453, 1521, 1727
 <223> n = A,T,C or G

<400> 1924

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gccggaagcg cgcggagacc atgtagtgag accctcgcca ggtctgagag tcaactggagc 60
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ggtagcttca gagcctccag tgctgtggg gctggagggtg aagttggggg ccctggtgct 180
gctgctgggtg ctcacctec tctgcagcct tggttccatc ggtgtgctgc gccggacagg 240
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taaagtgcc aacaaatccc ctctctctt ctcaaagcac agtaatgtgg cactgagccc 1680
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cgtaccctag gaatatggg acatggacat ggtgtcccat gccagatga taaacactga 1860
gctgccaaaa cattttttta aatacacccg aggagcccaa gggggaagg caatgcctac 1920
ccccagcgtt atttttgggg agggagggt gtgcataggg acatattctt tagaatctat 1980
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aaaaaaaaa
2048

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<210> 1925

<211> 456

<212> PRT

<213> Homo sapiens

<400> 1925

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Met Phe Leu Leu Leu Pro Phe Asp Ser Leu Ile Val Asn Leu Leu Gly
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Ile Ser Leu Thr Val Leu Phe Thr Leu Leu Leu Val Phe Ile Ile Val
          20           25           30
Pro Ala Ile Phe Gly Val Ser Phe Gly Ile Arg Lys Leu Tyr Met Lys
          35           40           45
Ser Leu Leu Lys Ile Phe Ala Trp Ala Thr Leu Arg Met Glu Arg Gly
          50           55           60
Ala Lys Glu Lys Asn His Gln Leu Tyr Lys Pro Tyr Thr Asn Gly Ile
65           70           75           80
Ile Ala Lys Asp Pro Thr Ser Leu Glu Glu Glu Ile Lys Glu Ile Arg
          85           90           95

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Arg	Ser	Gly	Ser	Ser	Lys	Ala	Leu	Asp	Asn	Thr	Pro	Glu	Phe	Glu	Leu
			100					105					110		
Ser	Asp	Ile	Phe	Tyr	Phe	Cys	Arg	Lys	Gly	Met	Glu	Thr	Ile	Met	Asp
		115					120					125			
Asp	Glu	Val	Thr	Lys	Arg	Phe	Ser	Ala	Glu	Glu	Leu	Glu	Ser	Trp	Asn
		130				135					140				
Leu	Leu	Ser	Arg	Thr	Asn	Tyr	Asn	Phe	Gln	Tyr	Ile	Ser	Leu	Arg	Leu
145					150					155					160
Thr	Val	Leu	Trp	Gly	Leu	Gly	Val	Leu	Ile	Arg	Tyr	Cys	Phe	Leu	Leu
				165					170					175	
Pro	Leu	Arg	Ile	Ala	Leu	Ala	Phe	Thr	Gly	Ile	Ser	Leu	Leu	Val	Val
			180					185					190		
Gly	Thr	Thr	Val	Val	Gly	Tyr	Leu	Pro	Asn	Gly	Arg	Phe	Lys	Glu	Phe
		195					200					205			
Met	Ser	Lys	His	Val	His	Leu	Met	Cys	Tyr	Arg	Ile	Cys	Val	Arg	Ala
		210				215					220				
Leu	Thr	Ala	Ile	Ile	Thr	Tyr	His	Asp	Arg	Glu	Asn	Arg	Pro	Arg	Asn
225					230					235					240
Gly	Gly	Ile	Cys	Val	Ala	Asn	His	Thr	Ser	Pro	Ile	Asp	Val	Ile	Ile
				245					250					255	
Leu	Ala	Ser	Asp	Gly	Tyr	Tyr	Ala	Met	Val	Gly	Gln	Val	His	Gly	Gly
			260					265					270		
Leu	Met	Gly	Val	Ile	Gln	Arg	Ala	Met	Val	Lys	Ala	Cys	Pro	His	Val
		275				280						285			
Trp	Phe	Glu	Arg	Ser	Glu	Val	Lys	Asp	Arg	His	Leu	Val	Ala	Lys	Arg
		290				295					300				
Leu	Thr	Glu	His	Val	Gln	Asp	Lys	Ser	Lys	Leu	Pro	Ile	Leu	Ile	Phe
305					310					315					320
Pro	Glu	Gly	Thr	Cys	Ile	Asn	Asn	Thr	Ser	Val	Met	Met	Phe	Lys	Lys
				325					330					335	
Gly	Ser	Phe	Glu	Ile	Gly	Ala	Thr	Val	Tyr	Pro	Val	Ala	Ile	Lys	Tyr
			340					345					350		
Asp	Pro	Gln	Phe	Gly	Asp	Ala	Phe	Trp	Asn	Ser	Ser	Lys	Tyr	Gly	Met
		355					360					365			
Val	Thr	Tyr	Leu	Leu	Arg	Met	Met	Thr	Ser	Trp	Ala	Ile	Val	Cys	Ser
		370				375					380				
Val	Trp	Tyr	Leu	Pro	Pro	Met	Thr	Arg	Glu	Ala	Asp	Glu	Asp	Ala	Val
385					390					395					400
Gln	Phe	Ala	Asn	Arg	Val	Lys	Ser	Ala	Ile	Ala	Arg	Gln	Gly	Gly	Leu
			405						410					415	
Val	Asp	Leu	Leu	Trp	Asp	Gly	Gly	Leu	Lys	Arg	Glu	Lys	Val	Lys	Asp
		420						425					430		
Thr	Phe	Lys	Glu	Glu	Gln	Gln	Lys	Leu	Tyr	Ser	Lys	Met	Ile	Val	Gly
		435					440					445			
Asn	His	Lys	Asp	Arg	Ser	Arg	Ser								
		450				455									

<210> 1926

<211> 324

<212> PRT

<213> Homo sapiens

<400> 1926

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Met Gly Pro Trp Gly Glu Pro Glu Leu Leu Val Trp Arg Pro Glu Ala
 1      5      10      15
Val Ala Ser Glu Pro Pro Val Pro Val Gly Leu Glu Val Lys Leu Gly
      20      25      30
Ala Leu Val Leu Leu Leu Val Leu Thr Leu Leu Cys Ser Leu Gly Ser
      35      40      45
Ile Gly Val Leu Arg Arg Thr Gly Ala Asn His Glu Gly Ser Ala Ser
      50      55      60
Arg Gln Lys Ala Leu Ser Leu Val Ser Cys Phe Ala Gly Gly Val Phe
65      70      75      80
Leu Ala Thr Cys Leu Leu Asp Leu Leu Pro Asp Tyr Leu Ala Ala Ile
      85      90      95
Asp Glu Ala Leu Ala Ala Leu His Val Thr Leu Gln Phe Pro Leu Gln
      100      105      110
Glu Phe Ile Leu Ala Met Gly Phe Phe Leu Val Leu Val Met Glu Gln
      115      120      125
Ile Thr Leu Ala Tyr Lys Glu Gln Ser Gly Pro Ser Pro Leu Glu Glu
      130      135      140
Thr Arg Ala Leu Leu Gly Thr Val Asn Gly Gly Pro Gln His Trp His
145      150      155      160
Asp Gly Pro Gly Val Pro Gln Ala Ser Gly Ala Pro Ala Thr Pro Ser
      165      170      175
Ala Leu Arg Ala Cys Val Leu Val Phe Ser Leu Ala Leu His Ser Val
      180      185      190
Phe Glu Gly Leu Ala Val Gly Leu Gln Arg Asp Arg Ala Arg Ala Met
      195      200      205
Glu Leu Cys Leu Ala Leu Leu Leu His Lys Gly Ile Leu Ala Val Ser
      210      215      220
Leu Ser Leu Arg Leu Leu Gln Ser His Leu Arg Ala Gln Val Val Ala
225      230      235      240
Gly Cys Gly Ile Leu Phe Ser Cys Met Thr Pro Leu Gly Ile Gly Leu
      245      250      255
Gly Ala Ala Leu Ala Glu Ser Ala Gly Pro Leu His Gln Leu Ala Gln
      260      265      270
Ser Val Leu Glu Gly Met Ala Ala Gly Thr Phe Leu Tyr Ile Thr Phe
      275      280      285
Leu Glu Ile Leu Pro Gln Glu Leu Ala Ser Ser Glu Gln Arg Ile Leu
      290      295      300
Lys Val Ile Leu Leu Leu Ala Gly Phe Ala Leu Leu Thr Gly Leu Leu
305      310      315      320
Phe Ile Gln Ile

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<210> 1927

<211> 15

<212> PRT

<213> Homo sapiens

<400> 1927

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Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly Cys Cys Trp
 1      5      10      15

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<210> 1928
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1928
 Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly Ile Asn Leu
 1 5 10 15
 Asp Leu Gly Ser
 20

<210> 1929
 <211> 20
 <212> PRT
 <213> Homo sapiens

<400> 1929
 Ile Ile Pro Lys Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu
 1 5 10 15
 Gln Pro Gln Val
 20

<210> 1930
 <211> 24
 <212> PRT
 <213> Homo sapiens

<400> 1930
 Leu Ser Ile Pro His Pro Tyr Ala Tyr Pro Asp Tyr Tyr Pro Tyr Ala
 1 5 10 15
 Trp Phe Gly Val Asn Pro Gly Met
 20

<210> 1931
 <211> 1526
 <212> DNA
 <213> Homo sapiens

<400> 1931
 actggaacat ttttacatga tgccagtgaa ctctgaagtc atgtatccac atttaatgga 60
 aggcttctta ccattcagca atttagttac tcatctggac tcatttttgc ctatctgccg 120
 ggtgaatgac tttgagactg ctgatattct atgtccaaaa gcaaaacgga caagtcgggtt 180
 tttaagtggc attatcaact ttattcactt cagagaagca tgccgtgaaa cgtatatgga 240
 atttcttttg caatataaat cctctgcgga caaaatgcaa cagttaaacg ccgcacacca 300
 ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc aagaagagtt 360
 caagcagctt tcagatggaa ttcaggagct acaacaatca ctaaatcagg attttcatca 420
 aaaaacgata gtgctgcaag agggaaattc ccaaaagaag tcaaataattt cagagaaaac 480
 caagcgtttg aatgaactaa aattgttggt ggtttctttg aaagaaatac aagagagttt 540
 gaaaacaaaa attgtggatt ctccagagaa gttaaagaat tataaagaaa aaatgaaaga 600
 tacggtccag aagcttaaaa atgccagaca agaagtgggt gagaaatatg aaatctatgg 660
 agactcagtt gactgcctgc cttcatgtca gttggaagtg cagttatatc aaaagaaaat 720


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acaggacctt tcagataata gggaaaaatt agccagtatc ttaaaggaga gcctgaactt 780
ggaggaccaa attgagagtg atgagtcaga actgaagaaa ttgaagactg aagaaaattc 840
gttcaaaaga ctgatgattg tgaagaagga aaaacttgcc acagcacaat tcaaaataaa 900
taagaagcat gaagatgtta agcaatacaa acgcacagta attgaggatt gcaataaagt 960
tcaagaaaaa agaggtgctg tctatgaacg agtaaccaca attaatacaag aaatccaaaa 1020
aattaaactt ggaattcaac aactaaaaga tgctgctgaa agggagaaac tgaagtccca 1080
ggaaatatatt ctaacttga aaactgcttt ggagaaatac cacgacggta ttgaaaaggc 1140
agcagaggac tcctatgcta agatagatga gaagacagct gaactgaaga ggaagatgtt 1200
caaaatgtca acctgattaa caaaattaca tgtctttttg taaatggctt gccatctttt 1260
aatttttctat ttagaaagaa aagttgaagc gaatggaagt atcagaagta ccaaataatg 1320
ttggcttcat cagttttttat acactctcat aagtagttaa taagatgaat ttaatgtagg 1380
cttttatttaa tttataatta aaataacttg tgcagctatt catgtctcta ctctgccctt 1440
tgttgtaaat agtttgagta aaacaaaact agttaccttt gaaatatata tatttttttc 1500
tgttaaaaaa aaaaaaaaaa aaaaaa 1526

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<210> 1932
<211> 404
<212> PRT
<213> Homo sapiens

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<400> 1932
Leu Glu His Phe Tyr Met Met Pro Val Asn Ser Glu Val Met Tyr Pro
 1          5          10          15
His Leu Met Glu Gly Phe Leu Pro Phe Ser Asn Leu Val Thr His Leu
 20          25          30
Asp Ser Phe Leu Pro Ile Cys Arg Val Asn Asp Phe Glu Thr Ala Asp
 35          40          45
Ile Leu Cys Pro Lys Ala Lys Arg Thr Ser Arg Phe Leu Ser Gly Ile
 50          55          60
Ile Asn Phe Ile His Phe Arg Glu Ala Cys Arg Glu Thr Tyr Met Glu
 65          70          75          80
Phe Leu Trp Gln Tyr Lys Ser Ser Ala Asp Lys Met Gln Gln Leu Asn
 85          90          95
Ala Ala His Gln Glu Ala Leu Met Lys Leu Glu Arg Leu Asp Ser Val
 100         105         110
Pro Val Glu Glu Gln Glu Glu Phe Lys Gln Leu Ser Asp Gly Ile Gln
 115         120         125
Glu Leu Gln Gln Ser Leu Asn Gln Asp Phe His Gln Lys Thr Ile Val
 130         135         140
Leu Gln Glu Gly Asn Ser Gln Lys Lys Ser Asn Ile Ser Glu Lys Thr
 145         150         155         160
Lys Arg Leu Asn Glu Leu Lys Leu Leu Val Val Ser Leu Lys Glu Ile
 165         170         175
Gln Glu Ser Leu Lys Thr Lys Ile Val Asp Ser Pro Glu Lys Leu Lys
 180         185         190
Asn Tyr Lys Glu Lys Met Lys Asp Thr Val Gln Lys Leu Lys Asn Ala
 195         200         205
Arg Gln Glu Val Val Glu Lys Tyr Glu Ile Tyr Gly Asp Ser Val Asp
 210         215         220
Cys Leu Pro Ser Cys Gln Leu Glu Val Gln Leu Tyr Gln Lys Lys Ile
 225         230         235         240
Gln Asp Leu Ser Asp Asn Arg Glu Lys Leu Ala Ser Ile Leu Lys Glu
 245         250         255
Ser Leu Asn Leu Glu Asp Gln Ile Glu Ser Asp Glu Ser Glu Leu Lys

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			260					265					270						
Lys	Leu	Lys	Thr	Glu	Glu	Asn	Ser	Phe	Lys	Arg	Leu	Met	Ile	Val	Lys				
		275					280					285							
Lys	Glu	Lys	Leu	Ala	Thr	Ala	Gln	Phe	Lys	Ile	Asn	Lys	Lys	His	Glu				
	290					295					300								
Asp	Val	Lys	Gln	Tyr	Lys	Arg	Thr	Val	Ile	Glu	Asp	Cys	Asn	Lys	Val				
305					310					315					320				
Gln	Glu	Lys	Arg	Gly	Ala	Val	Tyr	Glu	Arg	Val	Thr	Thr	Ile	Asn	Gln				
			325					330						335					
Glu	Ile	Gln	Lys	Ile	Lys	Leu	Gly	Ile	Gln	Gln	Leu	Lys	Asp	Ala	Ala				
		340					345						350						
Glu	Arg	Glu	Lys	Leu	Lys	Ser	Gln	Glu	Ile	Phe	Leu	Asn	Leu	Lys	Thr				
	355					360						365							
Ala	Leu	Glu	Lys	Tyr	His	Asp	Gly	Ile	Glu	Lys	Ala	Ala	Glu	Asp	Ser				
	370					375					380								
Tyr	Ala	Lys	Ile	Asp	Glu	Lys	Thr	Ala	Glu	Leu	Lys	Arg	Lys	Met	Phe				
385					390					395					400				
Lys	Met	Ser	Thr																

<210> 1933
 <211> 1836
 <212> DNA
 <213> Homo sapiens

<400> 1933

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ggcacgaggg caagtttgaa aagtgatgac ggttgacggt tgctgatttt tgactttgct 60
tgtagctgct ccccgaaact gccgtcttcc tgtcggcggc cggcactgta gattaacagg 120
aaacttccaa gatggaaact ttgtctttcc ccagatataa tgtagctgag attgtgattc 180
atattcgcaa taagatctta acaggagctg atggtaaaaa cctcaccaag aatgatcttt 240
atccaaatcc aaagcctgaa gtcttgacac tgatctacat gagagcctta caaatagtat 300
atggaattcg actggaacat ttttacatga tgccagtga cttctgaagtc atgtatccac 360
atttaaatgga aggcttctta ccattcagca atttagttac tcatctggac tcatttttgc 420
ctatctgccg ggtgaatgac tttagagactg ctgatattct atgtccaaaa gcaaaacgga 480
caagtcgggt tttaagtggc attatcaact ttattcactt cagagaagca tgccgtgaaa 540
cgtatatgga atttcttttg caatataaat cctctgcgga caaaatgcaa cagttaaacg 600
ccgcacacca ggaggcatta atgaaactgg agagacttga ttctgttcca gttgaagagc 660
aagaagagtt caagcagctt tcagatggta ttcaggagct acaacaatca ctaaatacagg 720
attttcatca aaaaacgata gtgctgcaag agggaaattc ccaaaagaag tcaaataattt 780
cagagaaaac caagcgtttg aatgaactaa aattgttggg ggtttctttg aaagaaatac 840
aagagagttt gaaaacaaaa attgtggatt ctccagagaa gttaaagaat tataaagaaa 900
aatgaaaga tacggtccag aagcttaaaa atgccagaca agaagtgggt gagaaatatg 960
aatctatgg agactcagtt gactgcctgc cttcatgtca gttggaagtg cagttatatc 1020
aaaagaaaat acaggacctt tcagataata gggaaaaatt agccagtatc ttaaaggaga 1080
gcctgaactt ggaggaccaa attgagagtg atgagtcaga actgaagaaa ttgaagactg 1140
aagaaaattc gttcaaaaaga ctgatgattg tgaagaagga aaaacttgcc acagcacaat 1200
tcaaaataaa taagaagcat gaagatgtta agcaatacaa acgcacagta attgaggatt 1260
gcaataaagt tcaagaaaaa agaggtgctg tctatgaacg agtaaccaca attaatacag 1320
aatccaaaa aattaaactt ggaattcaac aactaaaaga tgctgctgaa agggagaaac 1380
tgaagtccca ggaaatatatt ctaaacttga aaactgcttt ggagaaatac cacgacggta 1440
ttgaaaaggc agcagaggac tcctatgcta agatagatga gaagacagct gaactgaaga 1500
ggaagatggt caaaatgtca acctgattaa caaaattaca tgtctttttg taaatggctt 1560
gccatctttt aattttctat ttagaaagaa aagttgaagc gaatggaagt atcagaagta 1620

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ccaaataatg ttggcttcat cagtttttat acactctcat aagtagttaa taagatgaat 1680
ttaatgtagg cttttattaa tttataatta aaataacttg tgcagctatt catgtctcta 1740
ctctgccctt tggttgtaa atgtttgagta aaacaaaact agttaccttt gaaatatata 1800
tatttttttc tggttaaaaa aaaaaaaaaa aaaaaa 1836

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<210> 1934
 <211> 464
 <212> PRT
 <213> Homo sapiens

<400> 1934

Met	Glu	Thr	Leu	Ser	Phe	Pro	Arg	Tyr	Asn	Val	Ala	Glu	Ile	Val	Ile
1				5					10					15	
His	Ile	Arg	Asn	Lys	Ile	Leu	Thr	Gly	Ala	Asp	Gly	Lys	Asn	Leu	Thr
			20					25					30		
Lys	Asn	Asp	Leu	Tyr	Pro	Asn	Pro	Lys	Pro	Glu	Val	Leu	His	Met	Ile
		35					40					45			
Tyr	Met	Arg	Ala	Leu	Gln	Ile	Val	Tyr	Gly	Ile	Arg	Leu	Glu	His	Phe
	50					55					60				
Tyr	Met	Met	Pro	Val	Asn	Ser	Glu	Val	Met	Tyr	Pro	His	Leu	Met	Glu
65					70				75					80	
Gly	Phe	Leu	Pro	Phe	Ser	Asn	Leu	Val	Thr	His	Leu	Asp	Ser	Phe	Leu
				85					90					95	
Pro	Ile	Cys	Arg	Val	Asn	Asp	Phe	Glu	Thr	Ala	Asp	Ile	Leu	Cys	Pro
			100					105					110		
Lys	Ala	Lys	Arg	Thr	Ser	Arg	Phe	Leu	Ser	Gly	Ile	Ile	Asn	Phe	Ile
		115					120					125			
His	Phe	Arg	Glu	Ala	Cys	Arg	Glu	Thr	Tyr	Met	Glu	Phe	Leu	Trp	Gln
	130					135					140				
Tyr	Lys	Ser	Ser	Ala	Asp	Lys	Met	Gln	Gln	Leu	Asn	Ala	Ala	His	Gln
145					150					155					160
Glu	Ala	Leu	Met	Lys	Leu	Glu	Arg	Leu	Asp	Ser	Val	Pro	Val	Glu	Glu
				165					170					175	
Gln	Glu	Glu	Phe	Lys	Gln	Leu	Ser	Asp	Gly	Ile	Gln	Glu	Leu	Gln	Gln
			180					185					190		
Ser	Leu	Asn	Gln	Asp	Phe	His	Gln	Lys	Thr	Ile	Val	Leu	Gln	Glu	Gly
		195					200					205			
Asn	Ser	Gln	Lys	Lys	Ser	Asn	Ile	Ser	Glu	Lys	Thr	Lys	Arg	Leu	Asn
	210					215					220				
Glu	Leu	Lys	Leu	Leu	Val	Val	Ser	Leu	Lys	Glu	Ile	Gln	Glu	Ser	Leu
225					230					235					240
Lys	Thr	Lys	Ile	Val	Asp	Ser	Pro	Glu	Lys	Leu	Lys	Asn	Tyr	Lys	Glu
				245					250					255	
Lys	Met	Lys	Asp	Thr	Val	Gln	Lys	Leu	Lys	Asn	Ala	Arg	Gln	Glu	Val
			260					265					270		
Val	Glu	Lys	Tyr	Glu	Ile	Tyr	Gly	Asp	Ser	Val	Asp	Cys	Leu	Pro	Ser
	275						280					285			
Cys	Gln	Leu	Glu	Val	Gln	Leu	Tyr	Gln	Lys	Lys	Ile	Gln	Asp	Leu	Ser
	290					295					300				
Asp	Asn	Arg	Glu	Lys	Leu	Ala	Ser	Ile	Leu	Lys	Glu	Ser	Leu	Asn	Leu
305					310					315					320
Glu	Asp	Gln	Ile	Glu	Ser	Asp	Glu	Ser	Glu	Leu	Lys	Lys	Leu	Lys	Thr
				325					330					335	
Glu	Glu	Asn	Ser	Phe	Lys	Arg	Leu	Met	Ile	Val	Lys	Lys	Glu	Lys	Leu

			340					345					350				
Ala	Thr	Ala	Gln	Phe	Lys	Ile	Asn	Lys	Lys	His	Glu	Asp	Val	Lys	Gln		
		355					360					365					
Tyr	Lys	Arg	Thr	Val	Ile	Glu	Asp	Cys	Asn	Lys	Val	Gln	Glu	Lys	Arg		
		370				375					380						
Gly	Ala	Val	Tyr	Glu	Arg	Val	Thr	Thr	Ile	Asn	Gln	Glu	Ile	Gln	Lys		
385					390					395					400		
Ile	Lys	Leu	Gly	Ile	Gln	Gln	Leu	Lys	Asp	Ala	Ala	Glu	Arg	Glu	Lys		
			405					410				415					
Leu	Lys	Ser	Gln	Glu	Ile	Phe	Leu	Asn	Leu	Lys	Thr	Ala	Leu	Glu	Lys		
		420						425				430					
Tyr	His	Asp	Gly	Ile	Glu	Lys	Ala	Ala	Glu	Asp	Ser	Tyr	Ala	Lys	Ile		
		435					440					445					
Asp	Glu	Lys	Thr	Ala	Glu	Leu	Lys	Arg	Lys	Met	Phe	Lys	Met	Ser	Thr		
	450					455					460						

<210> 1935
 <211> 26
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1935
 ctatgttggc atgcggtgcc acgccc

26

<210> 1936
 <211> 32
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1936
 cacgcctaag atcttcatta aacttggtgt tg

32

<210> 1937
 <211> 159
 <212> PRT
 <213> Homo sapiens

<400> 1937																	
Arg	Cys	His	Ala	His	Gly	Pro	Ser	Cys	Leu	Val	Thr	Ala	Ile	Thr	Arg		
1				5				10					15				
Glu	Glu	Gly	Gly	Pro	Arg	Ser	Gly	Gly	Ala	Gln	Ala	Lys	Leu	Gly	Cys		
		20					25					30					
Cys	Trp	Gly	Tyr	Pro	Ser	Pro	Arg	Ser	Thr	Trp	Asn	Pro	Asp	Arg	Arg		
	35					40			45								
Phe	Trp	Thr	Pro	Gln	Thr	Gly	Pro	Gly	Glu	Gly	Arg	His	Glu	Arg	His		
50					55				60								
Thr	Gln	Thr	Gln	Asn	His	Thr	Ala	Ser	Pro	Arg	Ser	Pro	Val	Met	Glu		

65		70		75		80									
Ser	Pro	Lys	Lys	Lys	Asn	Gln	Gln	Leu	Lys	Val	Gly	Ile	Leu	His	Leu
			85					90					95		
Gly	Ser	Arg	Gln	Lys	Lys	Ile	Arg	Ile	Gln	Leu	Arg	Ser	Gln	Cys	Ala
			100					105					110		
Thr	Trp	Lys	Val	Ile	Cys	Lys	Ser	Cys	Ile	Ser	Gln	Thr	Pro	Gly	Ile
		115					120					125			
Asn	Leu	Asp	Leu	Gly	Ser	Gly	Val	Lys	Val	Lys	Ile	Ile	Pro	Lys	Glu
	130					135					140				
Glu	His	Cys	Lys	Met	Pro	Glu	Ala	Gly	Glu	Glu	Gln	Pro	Gln	Val	
145					150					155					

<210> 1938
 <211> 486
 <212> DNA
 <213> Homo sapiens

<400> 1938
 atgcggtgcc acgcccattg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60
 gggccgagga gtggaggggc tcaggcgaag ctgggggtgct gttgggggta tccgagtccc 120
 agaagcacct ggaaccccga cagaagattc tggactcccc agacgggacc aggagaggga 180
 cggcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240
 gagagcccca aaaagaagaa ccagcagctg aaagtgcggg tcctacacct gggcagcaga 300
 cagaagaaga tcaggatata gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
 agctgcatca gtcaaacacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
 ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480
 taatga 486

<210> 1939
 <211> 28
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> PCR primer

<400> 1939
 ctatgttgca tatatgcggt gccacgcc 28

<210> 1940
 <211> 160
 <212> PRT
 <213> Homo sapiens

<400> 1940
 Met Arg Cys His Ala His Gly Pro Ser Cys Leu Val Thr Ala Ile Thr
 1 5 10 15
 Arg Glu Glu Gly Gly Pro Arg Ser Gly Gly Ala Gln Ala Lys Leu Gly
 20 25 30
 Cys Cys Trp Gly Tyr Pro Ser Pro Arg Ser Thr Trp Asn Pro Asp Arg
 35 40 45
 Arg Phe Trp Thr Pro Gln Thr Gly Pro Gly Glu Gly Arg His Glu Arg
 50 55 60

```

His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg Ser Pro Val Met
65          70          75          80
Glu Ser Pro Lys Lys Lys Asn Gln Gln Leu Lys Val Gly Ile Leu His
          85          90          95
Leu Gly Ser Arg Gln Lys Lys Ile Arg Ile Gln Leu Arg Ser Gln Cys
          100         105         110
Ala Thr Trp Lys Val Ile Cys Lys Ser Cys Ile Ser Gln Thr Pro Gly
          115         120         125
Ile Asn Leu Asp Leu Gly Ser Gly Val Lys Val Lys Ile Ile Pro Lys
          130         135         140
Glu Glu His Cys Lys Met Pro Glu Ala Gly Glu Glu Gln Pro Gln Val
145          150          155          160

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<210> 1941
<211> 486
<212> DNA
<213> Homo sapiens

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<400> 1941
atgcggtgcc acgccatgg accttcttgt ctcgtcacgg ccataactag ggaggaagga 60
gggccgagga gtggaggggc tcaggcgaag ctgggggtgct gttgggggta tccgagtccc 120
agaagcacct ggaaccccga cagaagattc tggactcccc agacgggacc aggagaggga 180
cggcatgagc gacacacaca aacacagaac cacacagcca gtcccaggag cccagtaatg 240
gagagcccca aaaagaagaa ccagcagctg aaagtgcgga tcctacacct gggcagcaga 300
cagaagaaga tcaggataca gctgagatcc cagtgcgcga catggaaggt gatctgcaag 360
agctgcatca gtcaaacacc ggggataaat ctggatttgg gttccggcgt caaggtgaag 420
ataataccta aagaggaaca ctgtaaaatg ccagaagcag gtgaagagca accacaagtt 480
taatga                                           486

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<210> 1942
<211> 19
<212> PRT
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<400> 1942
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<210> 1943
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<212> PRT
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<210> 1944
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<210> 1945
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<210> 1946
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<210> 1947
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<210> 1948
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<210> 1949
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<210> 1950
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<210> 1951
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<210> 1952
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<400> 1952
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<210> 1953
 <211> 20
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<400> 1953
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<210> 1954
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<400> 1954
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<210> 1955
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 <212> PRT
 <213> Homo sapiens

<400> 1955
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 1 5 10 15
 Gln Thr Gln Asn
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<210> 1956
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<400> 1956
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<210> 1957
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<400> 1957

Arg His Glu Arg His Thr Gln Thr Gln Asn His Thr Ala Ser Pro Arg
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<210> 1958
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 <212> PRT
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<210> 1959
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<210> 1960
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<210> 1961
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<400> 1961
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<210> 1962
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<400> 1962
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<210> 1963
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 <212> PRT
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<400> 1963
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 1 5 10 15
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<210> 1964
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<210> 1965
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<210> 1966
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<400> 1966

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<210> 1967
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<210> 1968
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<400> 1968
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<210> 1969
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<400> 1969
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<210> 1970
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 <212> PRT
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<400> 1970
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<210> 1971
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<400> 1971
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<210> 1972
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<400> 1972
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<210> 1973
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<400> 1973
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<210> 1974
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<210> 1980
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<210> 1981
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<210> 1987
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<400> 1987
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<210> 1988
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<400> 2001
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<210> 2002
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<212> DNA
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<400> 2002
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